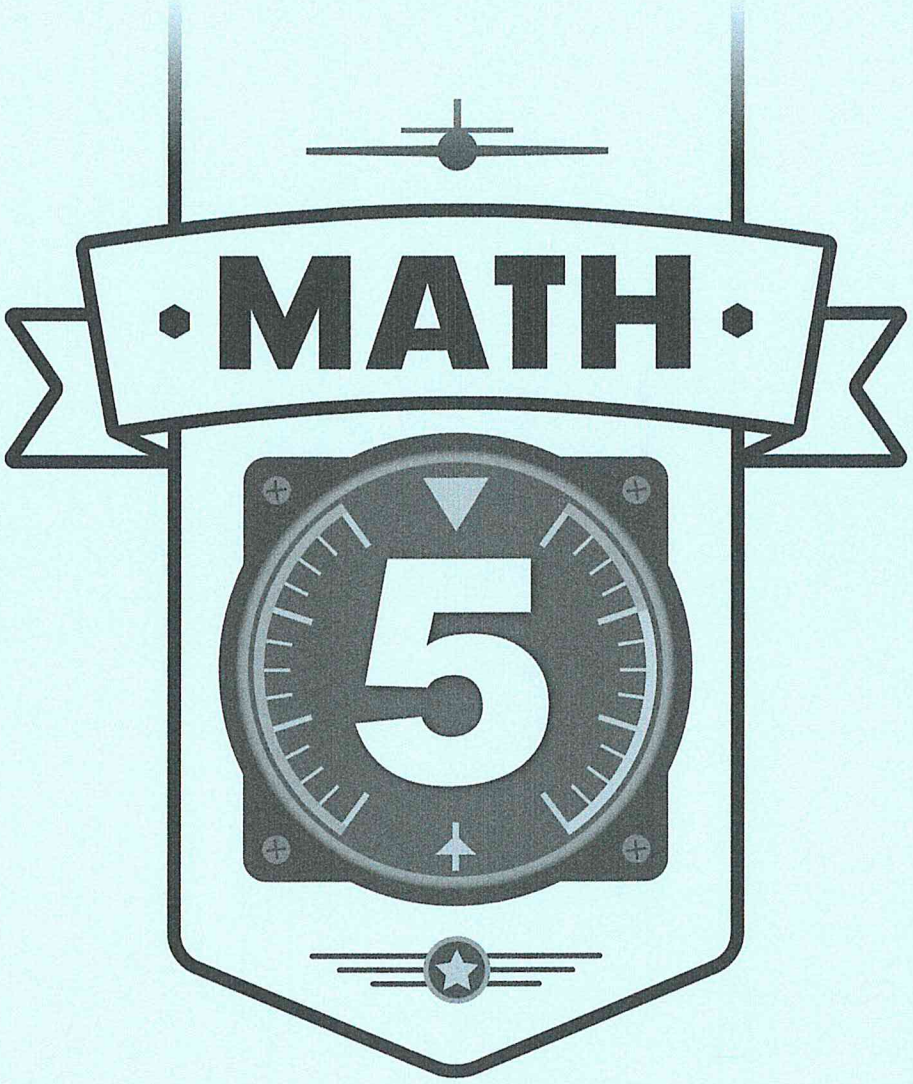
Assessments Answer Key

for use with



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Chapter 1 Assessment

Name _____

Write the value of 2 in the number.

1. 648,121,568,500 *20,000,000*
2. 2,000,541,714 *2,000,000,000*
3. 921,487 *20,000*

Circle the digit in the given place.

4.	Ten Millions place	2(9)4,326,704
5.	Hundred Thousands place	527,(1)39,048
6.	Ten Thousands place	87,6(3)9,211

Match.

D 7. 73,297,865
B 8. 73,029,865
C 9. 73,294,875
A 10. 73,290,865

A 70,000,000 + 3,000,000 + 200,000 + 90,000 + 800 + 60 + 5

B seventy-three million, twenty-nine thousand, eight hundred sixty-five

C 73 millions, 294 thousands, 875 ones

D (7 × 10,000,000) + (3 × 1,000,000) + (2 × 100,000) + (9 × 10,000) + (7 × 1,000) + (8 × 100) + (6 × 10) + (5 × 1)

Write the number in standard form.

11. 600,000,000 + 60,000,000 + 8,000,000 + 500,000 + 40,000 + 2,000 + 30 + 9 = *668,542,039*

12. five hundred eighty billion, three hundred one million, seventy-two thousand, three hundred ninety-four = *580,301,072,394*

Write the number in expanded form.

13. 715,409,220,486 =
700,000,000,000 + 10,000,000,000 + 5,000,000,000 + 400,000,000 + 9,000,000 + 200,000 + 20,000 + 400 + 80 + 6

14. six hundred twenty-one billion, three hundred twelve =
600,000,000,000 + 20,000,000,000 + 1,000,000,000 + 300 + 10 + 2

Round 718,270,536 to the given place.

15. Tens *718,270,540*
16. Hundreds *718,270,500*
17. One Thousands *718,271,000*
18. Ten Thousands *718,270,000*
19. Hundred Thousands *718,300,000*

Round 7.625 to the given place.

20. Ones *8*
21. Tenths *7.6*
22. Hundredths *7.63*

Write >, <, or = to compare.

23. 38,924 (>) 3,895

24. 235,945,351 (>) 233,485,152

25. 8.52 (<) 8.6

26. 776,501,200 (<) 776,511,100

27. 56,219,002 (=) 56,219,002

28. $^{-}4$ (<) 4

29. 988,426 (<) (9 × 100,000) + (8 × 10,000) + (9 × 1,000) + (7 × 100) + (2 × 10) + (6 × 1)

30. 361,270,455 (=) 300,000,000 + 60,000,000 + 1,000,000 + 200,000 + 70,000 + 400 + 50 + 5

31. 407,816,943 (>) four hundred seven million, eight thousand, nine hundred forty

Write the numbers from *least* to *greatest*.

32.

4,689	18,648	23,792	18,650
4,689	*18,648*	*18,650*	*23,792*

33.

89,681	89,528	89,928	899,321
89,528	*89,681*	*89,928*	*899,321*

34.

512,615	876,001	51,928	15,885
15,885	*51,928*	*512,615*	*876,001*

35.

8.7	8.2	7.9	8
7.9	*8*	*8.2*	*8.7*

36.

$^{-}5$	5	0	$^{-}3$
-5	*-3*	*0*	*5*

Chapter 2 Assessment

Name _____

Think of the applicable property or principle to complete the equation.

C	1. 5,325 − 0 =	A 67.490
E	2. 6.2 + (3.9 + 4.0) =	B 193 + 2,007
A	3. 0 + 67.490 =	C 5,325
B	4. 2,007 + 193 =	D 93 + (750 + 6,412)
D	5. (93 + 750) + 6,412 =	E (6.2 + 3.9) + 4.0

Think of the applicable property or principle to find the missing number.

6. 903,256 + 0 = 903,256
7. 28,456 + 10,397 = 10,397 + 28,456
8. 21,034 − 0 = 21,034
9. (4,809 + 237) + 563 = 4,809 + (237 + 563)

Solve.

10. 312 + 2,462 + 897 = 3,671
11. 54,971 + 18,526 = 73,497
12. 3,629 + 784 = 4,413
13. 47,392 + 18,604 = 65,996
14. 388,281 − 47,684 = 340,597
15. 39,802 − 27,654 = 12,148
16. 7,000 − 872 = 6,128
17. 46,003 − 15,326 = 30,677
18. 6.85 + 2.9 = 9.75
19. $7.04 + $8.15 = $15.19
20. 9.2 − 4.15 = 5.05
21. $3.82 − $0.95 = $2.87

Round to estimate. Solve.

22. Estimate: 40,000 + 10,000 = 50,000; 35,491 + 12,624 = 48,115
23. Estimate: 7,000 − 2,000 = 5,000; 6,832 − 2,187 = 4,645
24. Estimate: 7 − 5 = 2; 6.7 − 5.20 = 1.5

Complete the table.

25.

Rule: + 51	
Input	**Output**
15	*66*
80	*131*
134	*185*
6,290	*6,341*

26.

Rule: + 35	
Input	**Output**
42	*77*
75	*110*
849	*884*
3,170	*3,205*

27.

Rule: – 19	
Input	**Output**
69	*50*
90	*71*
480	*461*
5,321	*5,302*

United States Mint images

Solve and label your answer.

28. Jeffrey saved $57.00. He spent $39.52 on birthday presents for his family. How much does he have left?

$17.48

$57.00 – $39.52 = $17.48

29. Mom said Josiah could keep any money he found under the sofa cushions. He found the coins that are pictured. What amount of money did he find?

$0.75

$0.25 + $0.25 + $0.10 + $0.10 + $0.05 = $0.75

30. The university had 1,596 new students enroll. There are 9,275 returning students from the previous year. How many students will attend the university this year?

10,871 students

1,596 + 9,275 = 10,871 students

31. The fifth grade collected 42,967 pennies for the penny drive. The sixth grade collected 39,458 pennies. How many more pennies did the fifth grade collect than the sixth grade?

3,509 pennies

42,967 – 39,458 = 3,509 pennies

32. The zoo has 1,384 animals. If 463 of the animals are fish or birds, how many are not fish or birds?

921 animals

1,384 – 463 = 921 animals

33. The stadium has 60,000 seats. If 49,365 seats are occupied, how many more people can be seated?

10,635 people

60,000 – 49,365 = 10,635 people

Chapter 3 Assessment

Name _____

Identify the property shown.

A 1. $(12 \times 5) \times 30 = 12 \times (5 \times 30)$

E 2. $35 \times 0 = 0$

C 3. $14 \times 23 = 23 \times 14$

D 4. $89 \times 56 = (80 \times 56) + (9 \times 56)$

B 5. $59 \times 1 = 59$

Multiplication Properties

A Associative Property

B Identity Property

C Commutative Property

D Distributive Property

E Zero Property

Write the factors of the number from *least* to *greatest*. Circle *prime* or *composite* to describe the number.

6.	36	1, 2, 3, 4, 6, 9, 12, 18, 36	prime	(composite)
7.	29	1, 29	(prime)	composite
8.	18	1, 2, 3, 6, 9, 18	prime	(composite)

Write the first 9 nonzero multiples of the number.

9. 4: 4 8 12 16 20 24 28 32 36

10. 6: 6 12 18 24 30 36 42 48 54

11. 7: 7 14 21 28 35 42 49 56 63

12. 9: 9 18 27 36 45 54 63 72 81

Use mental math to solve.

13. $20 \times 70 =$ 1,400

14. $600 \times 50 =$ 30,000

15. $4 \times 8{,}000 =$ 32,000

Estimate the product.

16. 56×7 → 420

17. 92×80 → 7,200

18. 48×67 → 3,500

19. $\$6.93 \times 42$ → $280.00

Use the Distributive Property to complete the equation.

20. $7 \times 92 = n$

$7 \times (90 + 2) = n$

$(7 \times \underline{90}) + (7 \times 2) = n$

$\underline{630} + 14 = n$

$\underline{644} = n$

21. $12 \times 35 = n$

$12 \times (30 + 5) = n$

$(12 \times \underline{30}) + (12 \times \underline{5}) = n$

$\underline{360} + \underline{60} = n$

$\underline{420} = n$

Solve.

22. $753 \times 2 = 1{,}506$

23. $8{,}169 \times 7 = 57{,}183$

24. $67 \times 83 = 201 + 5360 = 5{,}561$

25. $98 \times 46 = 588 + 3920 = 4{,}508$

26. $582 \times 64 = 2328 + 34920 = 37{,}248$

27. $\$3.72 \times 14 = 1488 + 3720 = \$52.08$

28. $468 \times 235 = 2340 + 14040 + 93600 = 109{,}980$

29. $679 \times 805 = 3395 + 543200 = 546{,}595$

Solve and label your answer.

30. The 27 students in Mr. Andrews's class each paid $9.75 for the field trip. Eight parents paid $10 each to attend. How much money did Mr. Andrews collect?

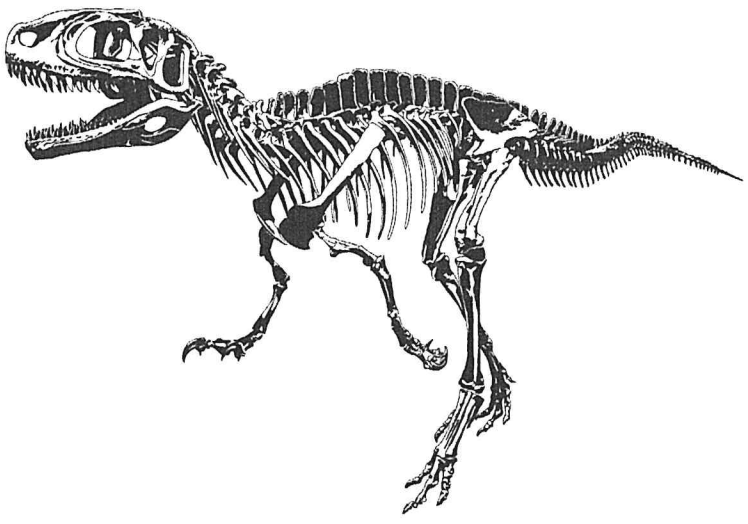
$343.25

($9.75 × 27) + ($10 × 8) = $343.25

31. The children's museum had 5,739 visitors this week. How many visitors might the museum expect over an 8-week period?

45,912 visitors

5,739 × 8 = 45,912 visitors



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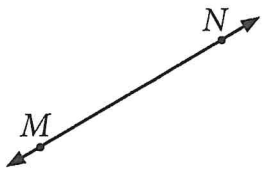
Chapter 4 Assessment

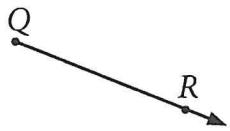
Name _____

Identify the figure as an angle, line, line segment, or ray. Use a symbol to name the figure. *Answers may vary.*

1. 

line

$\overleftrightarrow{MN}$ or $\overleftrightarrow{NM}$

2. 

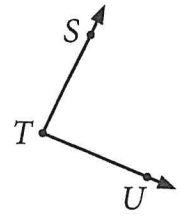
ray

$\overrightarrow{QR}$

3. 

line segment

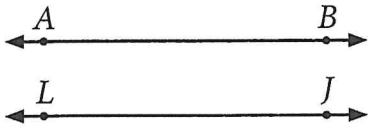
$\overline{LM}$ or $\overline{ML}$

4. 

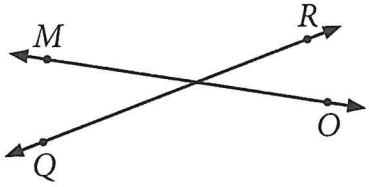
angle

$\angle STU$, $\angle UTS$, or $\angle T$

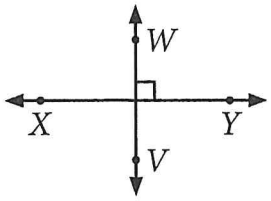
Identify the pair of lines as intersecting, parallel, or perpendicular.

5. 

parallel

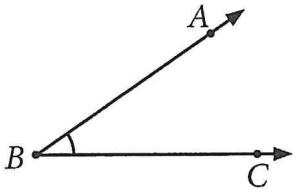
6. 

intersecting

7. 

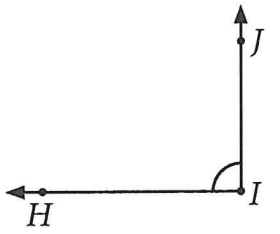
perpendicular

Classify the angle as right, acute, obtuse, or straight. Use a protractor to find the measure of the angle.

8. 

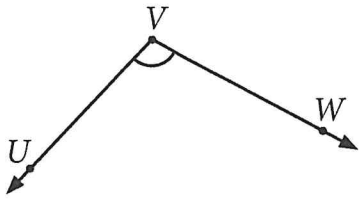
acute

$\angle ABC$ measures *35°*.

9. 

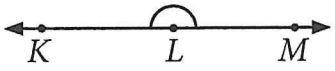
right

$\angle HIJ$ measures *90°*.

10. 

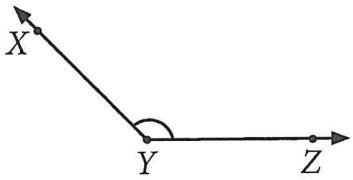
obtuse

$\angle UVW$ measures *105°*.

11. 

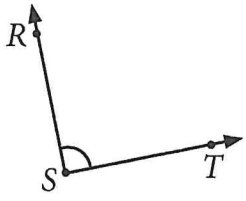
straight

$\angle KLM$ measures *180°*.

12. 

obtuse

$\angle XYZ$ measures *135°*.

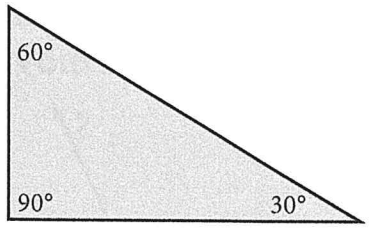
13. 

right

$\angle RST$ measures *90°*.

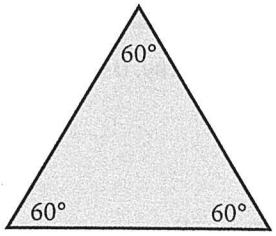
Classify the triangle as acute, obtuse, or right.

14.



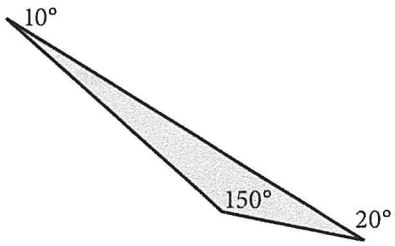
right

15.



acute

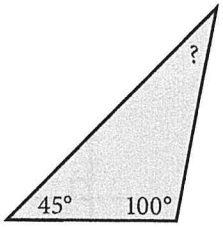
16.



obtuse

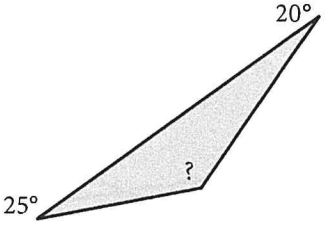
The sum of the measures of the three angles in a triangle equals 180°. Find the measure of the unknown angle.

17.



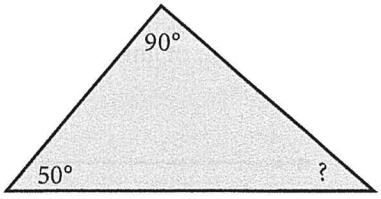
35°

18.



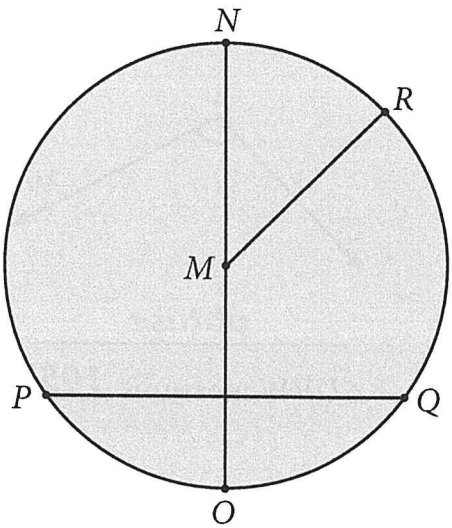
135°

19.



40°

Identify the line segment as a chord, radius, or diameter.

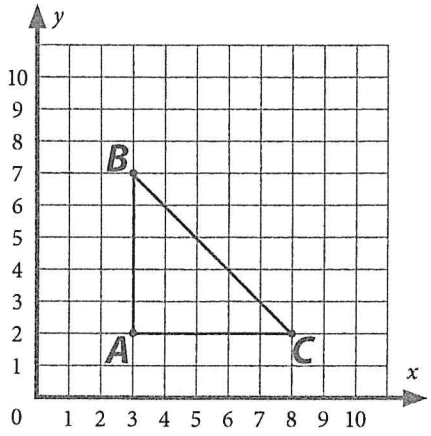


20. $\overline{NO}$ is a diameter.

21. $\overline{MR}$ is a radius.

22. $\overline{QP}$ is a chord.

Plot and label the points on the graph. Answer the question.



23. A (3, 2) B (3, 7) C (8, 2)

24. Connect the points.
What type of triangle is formed?
right

Chapter 5 Assessment

Name _____

Write a division equation to find the missing factor. Solve for *n*.

1. $8 \times n = 56$

   $n = 56 \div 8$

   $n = 7$

2. $7 \times n = 42$

   $n = 42 \div 7$

   $n = 6$

3. $n \times 9 = 72$

   $n = 72 \div 9$

   $n = 8$

Write the quotient.

4. $\frac{99}{11} =$ 9

5. $54 \div 6 =$ 9

6. $\frac{64}{8} =$ 8

Solve.

7.
```
  1,329
7)9,303
 -7
  23
 -21
   20
  -14
    63
   -63
     0
```

8.
```
   795
5)3,975
 -35
  47
 -45
   25
  -25
    0
```

9.
```
  130r2
6)782
 -6
  18
 -18
   02
  - 0
    2
```

10.
```
  103
9)927
 -9
  027
 -  27
    0
```

11.
```
   9r7
8)79
 -72
   7
```

12. $7\overline{)989}$ = 141r2

Use multiplication to check the quotient.

```
  141
x   7
  987
+   2
  989
```

Use mental math to solve.

13. $360 \div 9 =$ 40

14. $2{,}400 \div 6 =$ 400

15. $6{,}000 \div 10 =$ 600

16. $20 \times 50 =$ 1,000

17. $3 \times 700 =$ 2,100

18. $80 \times$ 90 $= 7{,}200$

Write a mathematical expression for the phrase.

19. the product of 6 and 20 6×20

20. the quotient of 549 and 9 $549 \div 9$

21. 16 times a number $16 \cdot n$

Mark the quotient.

22. $3\overline{)693}$

- ○ 200
- ○ 213
- ● 231

23. $2\overline{)846}$

- ○ 400
- ● 423
- ○ 432

24. $5\overline{)105}$

- ○ 20
- ● 21
- ○ 25

25. $6\overline{)1{,}218}$

- ○ 23
- ○ 200
- ● 203

Solve and label your answer.

26. The train on the roller coaster holds 24 riders. If each car holds 4 riders, how many cars are in the train?

$24 \div 4 = 6$ cars

27. Twelve eggs equals one dozen. The cook scrambled 6 dozen eggs. How many eggs did he scramble?

$6 \times 12 = 72$ eggs

28. The game has a total of 316 plastic playing pieces divided evenly among 4 colors. How many playing pieces of each color are there?

$316 \div 4 = 79$ pieces of each color

29. The market sells 2 pounds of red grapes for \$3.29 and 2 pounds of carrots for \$2.89. How much more do the grapes cost?

\$3.29 – \$2.89 = \$0.40 more

Mark the answer.

30. Each bumper car holds 2 riders. How many cars are needed for 23 people?

○ 10 ○ 11 ● 12

31. The Scoop Shoppe serves 43 flavors of ice cream. If you get a scoop of 3 different flavors each time you visit, how many trips will you have to make to try every flavor once?

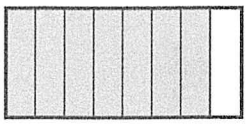
○ 13 ○ 14 ● 15

Chapter 6 Assessment

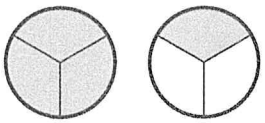
Name _____

Draw a picture for the phrase. *Pictures may vary.*

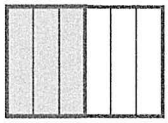
1. $\frac{7}{8}$ of the wall is painted.



2. $1\frac{1}{3}$ pizzas are left.



3. $\frac{1}{2}$ of a rectangle is equal to $\frac{3}{6}$ of a rectangle.



Complete the equivalent fraction.

4. $\frac{3}{4} = \frac{15}{20}$

5. $\frac{5}{8} = \frac{25}{40}$

6. $\frac{4}{9} = \frac{24}{54}$

7. $\frac{25}{30} = \frac{5}{6}$

8. $\frac{14}{50} = \frac{7}{25}$

9. $\frac{16}{28} = \frac{4}{7}$

Write >, <, or = to compare.

10. $\frac{4}{7} > \frac{2}{7}$

11. $\frac{9}{9} = 1$

12. $2 < \frac{7}{3}$

13. $8\frac{2}{6} < 8\frac{2}{3}$

14. $\frac{14}{8} = \frac{7}{4}$

15. $3\frac{5}{6} > \frac{21}{6}$

16. $\frac{21}{3} > \frac{32}{8}$

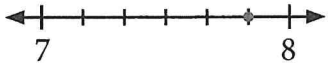
17. $\frac{1}{4} < \frac{3}{8}$

18. $4\frac{6}{8} = 4\frac{3}{4}$

Plot the mixed number on the number line. Round to the nearest whole number.

19. $3\frac{1}{3}$ → *3*

20. $7\frac{5}{6}$ → *8*



21. $5\frac{2}{4}$ → *6*

Write the numbers from *least* to *greatest*.

22. 1, $\frac{3}{5}$, $\frac{7}{6}$

$\frac{3}{5}$, *1*, *$\frac{7}{6}$*

23. $3\frac{2}{3}$, $3\frac{5}{6}$, $3\frac{1}{9}$

$3\frac{1}{9}$, *$3\frac{2}{3}$*, *$3\frac{5}{6}$*

Rename the mixed number to an improper fraction.

24. $1\frac{5}{8} = \frac{13}{8}$

25. $4\frac{2}{3} = \frac{14}{3}$

26. $7\frac{1}{2} = \frac{15}{2}$

Rename the improper fraction to a mixed number.

27. $\frac{15}{4} = 3\frac{3}{4}$

28. $\frac{29}{7} = 4\frac{1}{7}$

29. $\frac{32}{5} = 6\frac{2}{5}$

List the factors of the number. Mark the answer.

30. 13: 1, 13

31. The number 13 is ?.

● prime ○ composite

32. 18: 1, 2, 3, 6, 9, 18

33. The number 18 is ?.

○ prime ● composite

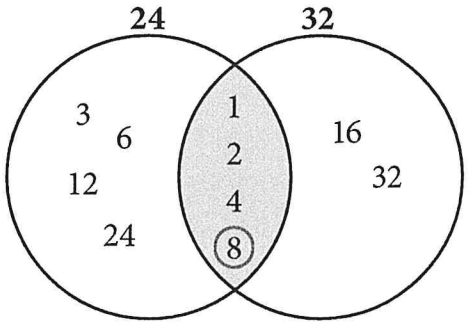
34. 30: 1, 2, 3, 5, 6, 10, 15, 30

35. The number 30 is ?.

○ prime ● composite

36. The greatest common factor (GCF) of 18 and 30 is 6.

Use the Venn diagram to find the answer.



37. Shade the section of the diagram that shows the common factors of 24 and 32.

38. Circle the GCF (greatest common factor).

Rename the fraction in lowest terms.

39. $\frac{16}{24} = \frac{2}{3}$

40. $\frac{12}{48} = \frac{1}{4}$

41. $\frac{15}{25} = \frac{3}{5}$

Chapter 7 Assessment

Name _____

Complete the table.

1.

Rule: × 8	
Input	Output
10	80
30	240
50	400
100	800

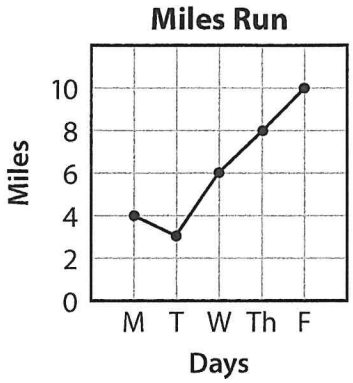
2.

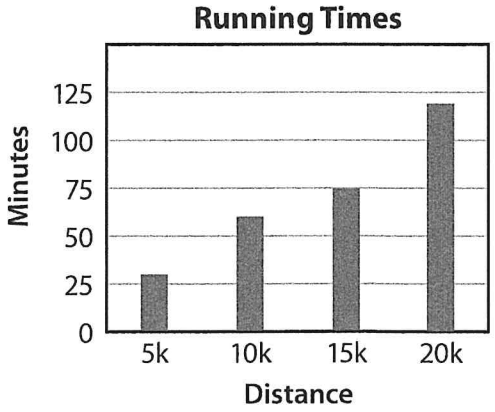
Rule: ÷ 30	
Input	Output
90	3
150	5
2,100	70
2,700	90

3.

Rule: ÷ 5	
Input	Output
5,000	1,000
4,500	900
4,000	800
3,500	700

Use the graph to find the answer.





4. What was the total number of miles run this week?

○ 10 mi ○ 20 mi ○ 30 mi ● 31 mi

5. On which day were fewer miles run than the day before?

● Tuesday ○ Wednesday ○ Thursday

6. What time is recorded for the 10k run?

○ 50 sec ○ 50 min ● 60 min ○ 75 min

7. The 20k run time is nearly ? times the 5k run time.

○ 3 ● 4 ○ 5 ○ 6

Mark the answer.

8.

50 donuts 12 donuts per box

● 4 boxes of donuts, 2 donuts left
○ 4 boxes of donuts, 8 donuts left
○ 6 boxes of donuts

9.

10 bowling pins per alley 5 alleys

○ 2 bowling pins total
○ 15 bowling pins total
● 50 bowling pins total

Divide.

10. $40\overline{)360}$ → 9; −360; 0

11. $70\overline{)6,300}$ → 90; −6300; 0

12. $34\overline{)238}$ → 7; −238; 0

13. $14\overline{)130}$ → 9r4; −126; 4

14. $14\overline{)965}$ → 68r13; −84; 125; −112; 13

15. $69\overline{)724}$ → 10r34; −69; 34; −0; 34

16. $94\overline{)2,162}$ → 23; −188; 282; −282; 0

17. $25\overline{)18,903}$ → 756r3; −175; 140; −125; 153; −150; 3

Use multiplication to check your answers for problems 12 and 17 above.

18. $34 \times 7 = 238$

19. $756 \times 25 = 3780$; $3780 + 15120 = 18,900$; $18,900 + 3 = 18,903$

Mark the better estimate for the quotient.

20. $42\overline{)38,927}$
- ○ 90
- ● 900

21. $79\overline{)4,562}$
- ○ 5
- ● 50

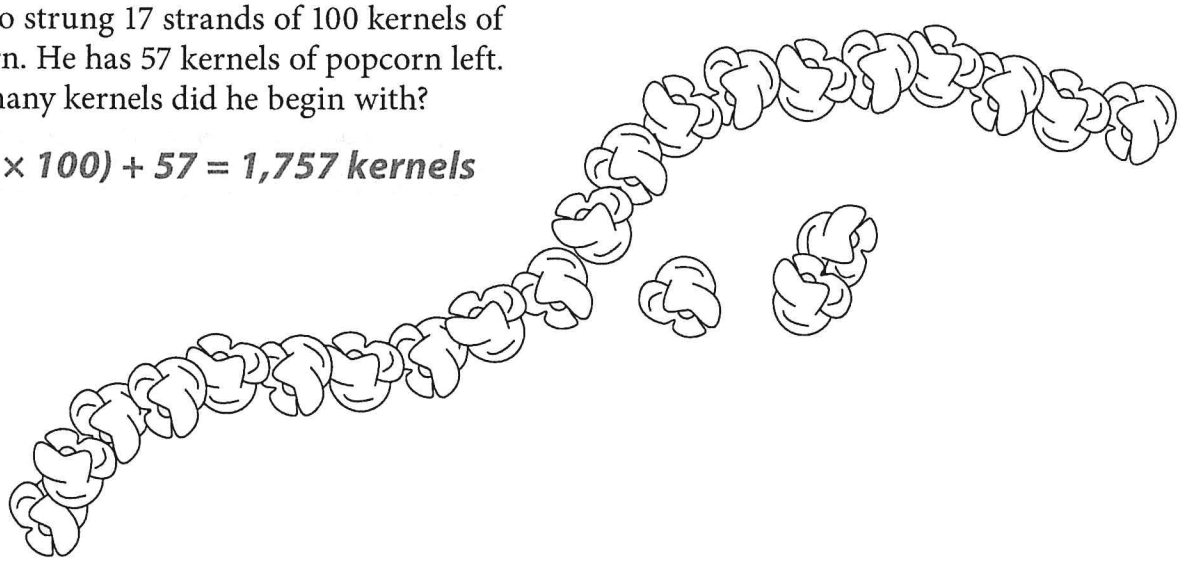
Solve and label your answer.

22. Leslie's chickens laid 4,360 eggs this year. How many egg cartons holding 12 eggs each was she able to fill completely?

4,360 ÷ 12 = 363 cartons

23. Alfonzo strung 17 strands of 100 kernels of popcorn. He has 57 kernels of popcorn left. How many kernels did he begin with?

(17 × 100) + 57 = 1,757 kernels



Chapter 8 Assessment

Name _____

Write the time. Complete the word form.

1. 

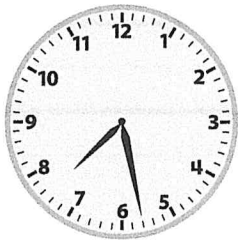
10:15

quarter *after* 10

2. 

2:43

17 minutes before 3

3. 

7:28

28 minutes after 7

Write the elapsed time.

4. Gregory woke up at 5:23 a.m. He went to sleep at 10:35 p.m. How long did he sleep?

6 hr 48 min

Write the time with *a.m.* or *p.m.*

5. 2 hr 20 min before 1:15 p.m.

10:55 a.m.

Complete the facts.

6. 1 min = *60* sec
7. 1 hr = *60* min
8. 1 day = *24* hr
9. 1 week = *7* days
10. 1 year = *12* months
11. 1 year = *52* weeks
12. 1 year = *365* days
13. 1 leap year = *366* days
14. 1 decade = *10* years
15. 1 century = *100* years
16. 1 ft = *12* in.
17. 1 yd = *36* in.
18. 1 yd = *3* ft
19. 1 mi = *5,280* ft
20. 1 mi = *1,760* yd
21. 1 lb = *16* oz
22. 1 tn = *2,000* lb
23. 1 c = *8* fl oz
24. 1 pt = *2* c
25. 1 qt = *2* pt
26. 1 gal = *4* qt

Answer the question.

27. Which is the tenth month? *October*

28. Flag Day is celebrated the 14th day of June each year. What is this year's Flag Day date in number form?

6/14/2019 *Year may vary.*

Write the measurement of the line segment.

29.		$4\frac{3}{8}$ in.
30.		$2\frac{1}{2}$ in.
31.		$1\frac{3}{4}$ in.

Solve. Rename if necessary.

32.
$$\begin{array}{r} 21 \text{ ft } 4 \text{ in.} \\ +\ 7 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$
28 ft 15 in. = 29 ft 3 in.

33.
$$\begin{array}{r} 6 \text{ yd } 1 \text{ ft} \\ -\ 4 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$
1 yd 2 ft

34.
$$\begin{array}{r} 7 \text{ hr } 55 \text{ min} \\ +\ 2 \text{ hr } 40 \text{ min} \\ \hline \end{array}$$
9 hr 95 min = 10 hr 35 min

35.
$$\begin{array}{r} 4 \text{ hr } 10 \text{ min} \\ -\ 1 \text{ hr } 45 \text{ min} \\ \hline \end{array}$$
2 hr 25 min

Rename the units.

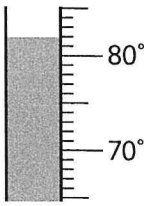
36. 27 ft = 9 yd
37. 64 oz = 4 lb
38. 40 in. = 3 ft 4 in.
39. 60 in. = 5 ft
40. 8 pt = 16 c
41. 187 min = 3 hr 7 min
42. 28 qt = 7 gal
43. 7 tn = 14,000 lb
44. 2 gal 3 qt = 11 qt

Write the unit of measure that best completes the statement. Use each abbreviation only once.

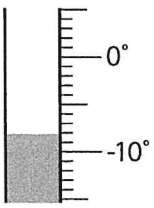
gal	tn	lb	qt	mi	yd	oz	ft

45. A glass of lemonade holds 10 oz.
46. The aquarium holds 20 gal of water.
47. A blue whale weighs 100 tn.
48. The longest blue whale measured 108 ft.
49. Jake ran 4 mi for the charity run.
50. Jane bought 3 yd of material for a dress.
51. A pitcher of milk holds 2 qt.
52. A bunch of bananas weighs 2 lb.

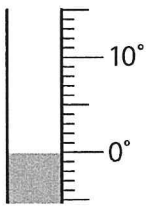
Write the Fahrenheit temperature.

53. 

82°F

54. 

-8°F

55. 

0°F

Chapter 9 Assessment

Name _____

Solve. Simplify the answer.

1. $\frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{2}{3}$

2. $\frac{1}{12} + \frac{5}{12} = \frac{6}{12} = \frac{1}{2}$

3. $\frac{8}{10} + \frac{3}{10} = \frac{11}{10} = 1\frac{1}{10}$

4. $\frac{1}{5} + \frac{3}{5} + \frac{1}{5} = \frac{5}{5} = 1$

5. $\frac{4}{8} + \frac{5}{8} + \frac{2}{8} = \frac{11}{8} = 1\frac{3}{8}$

6. $\frac{2}{4} + \frac{3}{4} + \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$

7. $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$

8. $\frac{5}{14} - \frac{3}{14} = \frac{2}{14} = \frac{1}{7}$

9. $\frac{13}{16} - \frac{9}{16} = \frac{4}{16} = \frac{1}{4}$

10. $7\frac{5}{9} - 3\frac{2}{9} = 4\frac{3}{9} = 4\frac{1}{3}$

11. $4 = 3\frac{6}{6}$
$- 2\frac{2}{6} = 2\frac{2}{6}$
$1\frac{4}{6} = 1\frac{2}{3}$

12. $5\frac{1}{3} = 4\frac{4}{3}$
$- 3\frac{2}{3} = 3\frac{2}{3}$
$1\frac{2}{3}$

Complete the equivalent fraction.

13. $\frac{1}{2} = \frac{7}{14}$

14. $\frac{3}{5} = \frac{9}{15}$

15. $\frac{4}{7} = \frac{12}{21}$

16. $\frac{7}{9} = \frac{28}{36}$

17. $\frac{2}{3} = \frac{8}{12}$

18. $\frac{1}{4} = \frac{2}{8}$

Solve. Simplify the answer.

19. $\frac{1}{2} = \frac{2}{4}$
$+ \frac{1}{4} = \frac{1}{4}$
$\frac{3}{4}$

20. $\frac{1}{2} = \frac{5}{10}$
$+ \frac{3}{5} = \frac{6}{10}$
$\frac{11}{10} = 1\frac{1}{10}$

21. $4\frac{2}{3} = 4\frac{4}{6}$
$+ 2\frac{5}{6} = 2\frac{5}{6}$
$6\frac{9}{6} = 7\frac{1}{2}$

22. $2\frac{3}{4} = 2\frac{6}{8}$
$+ 3\frac{2}{8} = 3\frac{2}{8}$
$5\frac{8}{8} = 6$

23. $\frac{3}{4} = \frac{6}{8}$
$- \frac{3}{8} = \frac{3}{8}$
$\frac{3}{8}$

24. $\frac{2}{4} = \frac{6}{12}$
$- \frac{1}{6} = \frac{2}{12}$
$\frac{4}{12} = \frac{1}{3}$

25. $\frac{3}{5} = \frac{9}{15}$
$- \frac{1}{3} = \frac{5}{15}$
$\frac{4}{15}$

26. $3 = 2\frac{6}{6}$
$- 1\frac{5}{6} = 1\frac{5}{6}$
$1\frac{1}{6}$

Estimate the answer. Solve. Simplify the answer.

27. Estimate: $4 + 3 = 7$

$3\frac{1}{2} = 3\frac{3}{6}$

$+ \; 2\frac{5}{6} = 2\frac{5}{6}$

$5\frac{8}{6} = 6\frac{1}{3}$

28. Estimate: $7 - 7 = 0$

$7\frac{1}{4} = 6\frac{10}{8}$

$- \; 6\frac{7}{8} = 6\frac{7}{8}$

$\frac{3}{8}$

29. Estimate: $5 - 2 = 3$

$5 = 4\frac{9}{9}$

$- \; 1\frac{8}{9} = 1\frac{8}{9}$

$3\frac{1}{9}$

Jumper	Jump 1	Jump 2	Jump 3
Gavin	$3\frac{1}{3}$ ft	$3\frac{1}{2}$ ft	$3\frac{1}{6}$ ft
Drayton	$4\frac{3}{4}$ ft	$4\frac{1}{4}$ ft	$5\frac{1}{8}$ ft
Carter	$2\frac{7}{8}$ ft	$3\frac{1}{2}$ ft	$3\frac{1}{3}$ ft

Use the table to find the answer.

30. Who had the longest jump?

○ Gavin ● Drayton ○ Carter

31. Which of Gavin's jumps was the shortest?

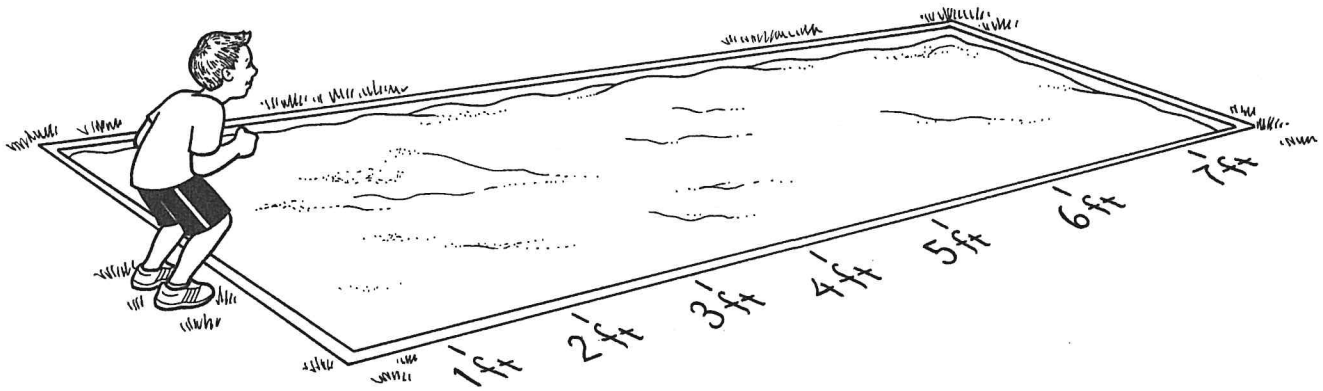
○ jump 1 ○ jump 2 ● jump 3

32. Drayton's jumps totaled a distance of ___?___.

○ $13\frac{1}{2}$ ft ● $14\frac{1}{8}$ ft ○ $14\frac{1}{2}$ ft

33. The difference between the shortest and the longest jumps was ___?___.

● $2\frac{1}{4}$ ft ○ $2\frac{1}{2}$ ft ○ $2\frac{3}{4}$ ft



Chapter 10 Assessment

Name _____

Use the given operations to write mathematical expressions for the value. *Answers will vary.*

1.

24
_____ + _____
_____ − _____
_____ × _____
_____ ÷ _____

2.

45
_____ + _____
_____ − _____
_____ × _____
_____ ÷ _____

3.

50
_____ + _____
_____ − _____
_____ × _____
_____ ÷ _____

Match the phrase to the mathematical expression.

D 4. Three equal stacks of paper sat on the counter.

B 5. The checker pieces were sorted by color: red or black.

A 6. The time on the clock was turned back one hour.

C 7. The band had three trumpets in the second row and some more trumpets in the third row.

A $t - 1$

B $p \div 2$

C $3 + t$

D $3 \cdot p$

Write >, <, or = to make the statement true.

8. $6 \times 25 \; = \; (6 \times 20) + (6 \times 5)$

9. $a \cdot b \; = \; b \cdot a$

10. $15 \div 3 \; > \; \frac{21}{7}$

11. $5 \times (7 \times 30) \; = \; (5 \times 7) \times 30$

12. $71 + 0.8 \; > \; 70 + 0.18$

13. $618 \div 0 \; < \; 1 \times 618$

14. $0.5 \; = \; \frac{1}{2}$

15. $(x + y) + z \; = \; x + (y + z)$

Write the value of *n* for the part-part-whole model.

16.

n	
30	70

$n =$ 100

17.

30		
n	*n*	*n*

$n =$ 10

18.

15	
n	9

$n =$ 6

19.

16			
n	4	4	4

$n =$ 4

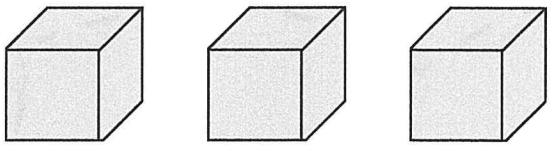
Solve.

20.

3 balls weigh 9 pounds.

1 ball weighs 3 pounds.

21.



1 block weighs 12 ounces.

3 blocks weigh 36 ounces.

Write the value of the expression if $n = 3$.

22. $n + 10$
3 + 10 = 13

23. $27 \div n$
27 ÷ 3 = 9

24. $(n - 1) + 2$
(3 − 1) + 2 = 4

25. $(7 \times 12) + n$
(7 × 12) + 3 = 87

Write the value of *n*.

26. $50 \times n = 500$
$n =$ *10*

27. $25 + n = 75$
$n =$ *50*

28. $200 - 10 = n$
$n =$ *190*

29. $\frac{32}{n} = 8$
$n =$ *4*

Draw a picture to solve. Label your answer. ***Equations may vary.***

30. Delmas played 20 minutes of the soccer game. Donan played the entire $1\frac{1}{2}$ hours of the game. How much longer did Donan play than Delmas?

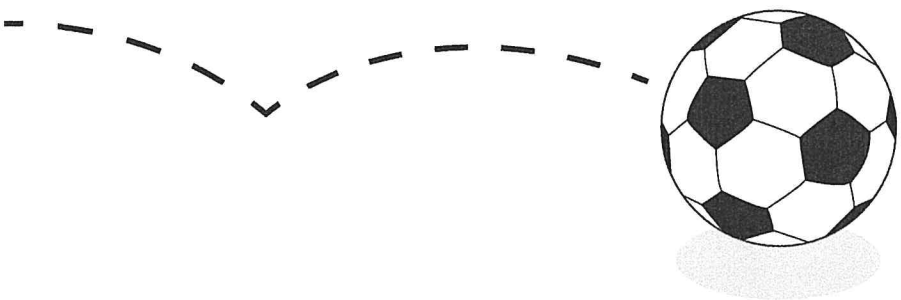
90 − 20 = 70 min or 1 hr 10 min

31. Donan dribbled the soccer ball from his team's goal line straight down the field for 85 yards. If there was then 45 feet between Donan and the opponent's goal line, how long is the soccer field?

85 yd + 15 yd = 100 yd or 255 ft + 45 ft = 300 ft

32. The cheering fans sat on 6 bleachers that held 50 people each. If there were 7 empty seats, how many fans were in the bleachers?

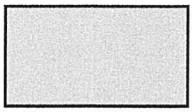
(6 × 50) − 7 = 293 fans

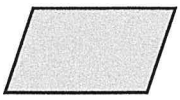


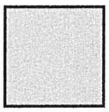
Chapter 11 Assessment

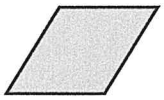
Name _____

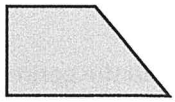
Identify the quadrilateral as a square, rectangle, trapezoid, rhombus, or parallelogram. Use each answer once.

1.  *rectangle*

2.  *parallelogram*

3.  *square*

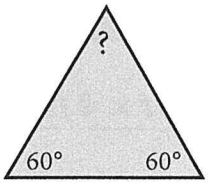
4.  *rhombus*

5.  *trapezoid*

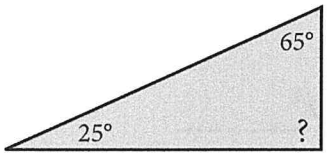
Match the shape to its number of sides.

D	6. heptagon	**A** 4 sides
C	7. hexagon	**B** 5 sides
E	8. octagon	**C** 6 sides
B	9. pentagon	**D** 7 sides
A	10. quadrilateral	**E** 8 sides

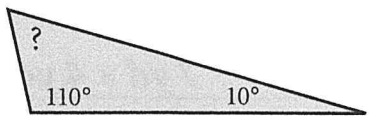
The angles of a triangle total 180°. Find the measurement of the unknown angle. Classify the triangle as acute, obtuse, or right.

11. 

60°
acute

12. 

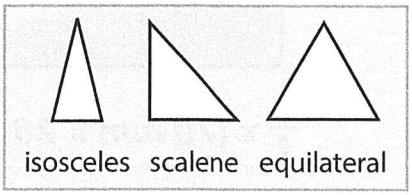
90°
right

13. 

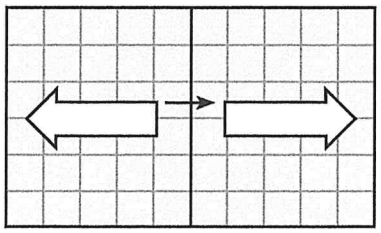
60°
obtuse

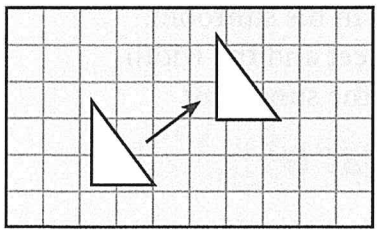
Identify the triangle.

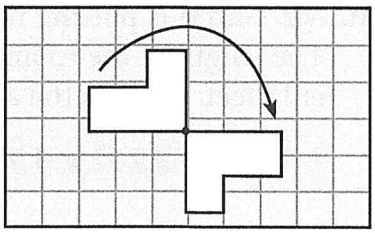
14. The lengths of the sides are all the same. *equilateral*
15. The lengths of the sides are all different. *scalene*
16. The lengths of at least 2 sides are the same. *isosceles*



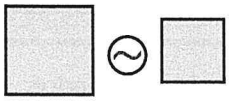
Write *translation*, *rotation*, or *reflection* to show how the figure moved.

17. 
reflection

18. 
translation

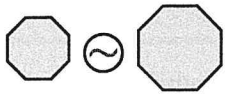
19. 
rotation

Use the symbol for similar (~) or congruent (≅) to compare the figures.

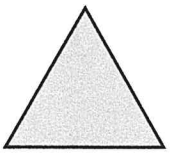
20. 

21. 

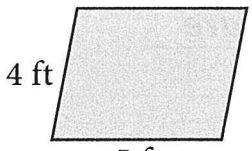
22. 

23. 

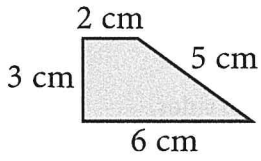
Find the perimeter.

24. 

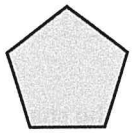
18 in.

25. 

18 ft

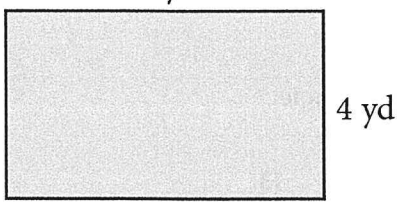
26. 

16 cm

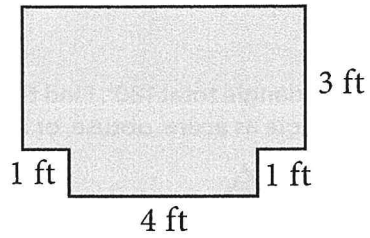
27. 

30 yd

Find the area.

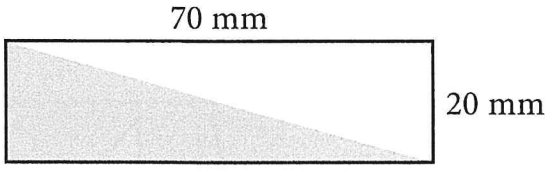
28. 

7 yd × 4 yd = 28 yd²

29. 

(6 ft × 3 ft) + (1 ft × 4 ft) = 22 ft²

Find the area of the shaded part.

30. 

$\frac{1}{2}$ × (70 mm × 20 mm) = 700 mm²

Solve and label your answer.

31. Mr. Garcia is putting new tile in his sunroom. The length of the room is 22 feet and the width is 15 feet. What is the area of the sunroom?

22 ft × 15 ft = 330 ft²

Chapter 12 Assessment

Name _____

Solve. Write an addition equation to check the answer. Simplify the answer.

1. $5 \times \frac{3}{4} = \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$

2. $3 \times \frac{4}{5} = \frac{4}{5} + \frac{4}{5} + \frac{4}{5} = \frac{12}{5} = 2\frac{2}{5}$

3. $4 \times \frac{1}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} = 1$

Solve. Simplify the answer.

4. $3 \times \frac{2}{8} = \frac{6}{8} = \frac{3}{4}$

5. $6 \times \frac{1}{3} = \frac{6}{3} = 2$

6. $1\frac{3}{4} \times \frac{1}{2} = \frac{7}{4} \times \frac{1}{2} = \frac{7}{8}$

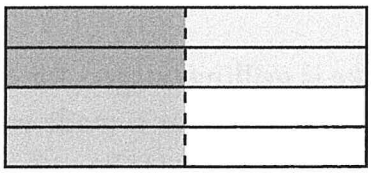
7. $2 \times 1\frac{1}{3} = 2 \times \frac{4}{3} = \frac{8}{3} = 2\frac{2}{3}$

8. $\frac{3}{8} \times 12 = \frac{36}{8} = 4\frac{4}{8} = 4\frac{1}{2}$

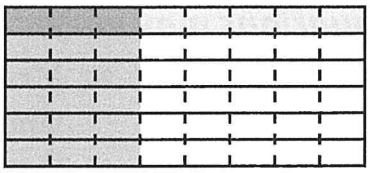
9. $\frac{4}{5} \times 7 = \frac{28}{5} = 5\frac{3}{5}$

Shade the picture to help you solve. Simplify the answer.

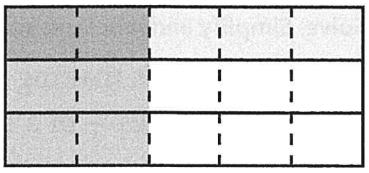
10. $\frac{1}{2} \times \frac{2}{4} = \frac{2}{8} = \frac{1}{4}$



11. $\frac{3}{8} \times \frac{1}{6} = \frac{3}{48} = \frac{1}{16}$



12. $\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$



Solve. Simplify and label the answer. *Equations may vary.*

13. Ethan wanted to give each of his 5 friends a piece of bubblegum tape. Each piece was $\frac{1}{4}$ of a yard long. How many total yards of bubblegum tape did he plan to give away?

$5 \times \frac{1}{4} = \frac{5}{4} = 1\frac{1}{4}$ yd

14. Ellen had 24 pictures. She gave her friend $\frac{2}{3}$ of them. How many pictures did she give away?

$\frac{2}{3} \times 24 = \frac{48}{3} = 16$ pictures

Round each factor to the nearest whole number. Estimate the product.

15. 4 2
$3\frac{1}{2} \times 1\frac{7}{10}$ 8

16. 1 6
$1\frac{2}{6} \times 6\frac{1}{4}$ 6

17. 6 2
$5\frac{1}{2} \times 2\frac{2}{6}$ 12

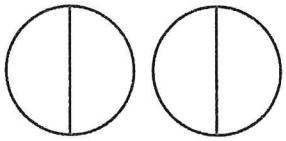
18. 2 3
$2\frac{1}{4} \times 2\frac{3}{4}$ 6

19. 4 5
$3\frac{5}{10} \times 4\frac{1}{2}$ 20

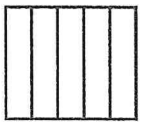
20. 2 5
$2\frac{3}{8} \times 4\frac{5}{8}$ 10

Draw a picture to solve. Write the answer in lowest terms. *Pictures may vary.*

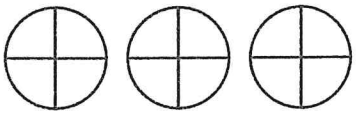
21. $2 \div \frac{1}{2} = 4$



22. $1 \div \frac{1}{5} = 5$



23. $3 \div \frac{1}{4} = 12$



Solve. Simplify and label the answer. *Equations may vary.*

24. Mrs. Higgs is making pies for a church social. It takes $\frac{3}{4}$ of a cup of sugar for one pie. How many cups of sugar will she need for 7 pies?

$7 \times \frac{3}{4} = \frac{21}{4} = 5\frac{1}{4}$ c

25. Mr. Brondyke is grilling burgers for the family picnic. Each burger is made with $\frac{1}{3}$ pound of ground beef. He has 12 pounds of ground beef. How many burgers can he make?

$12 \div \frac{1}{3} = 36$ burgers

Chapter 13 Assessment

Name _____

Write the fraction in decimal form.

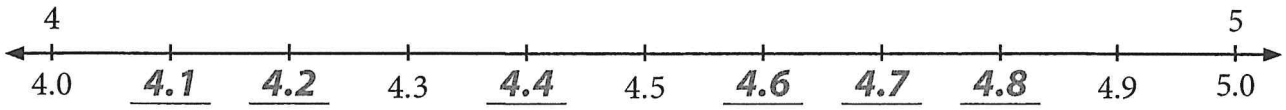
1. $\frac{3}{10}$ = 0.3
2. $\frac{41}{100}$ = 0.41
3. $\frac{278}{1,000}$ = 0.278
4. $\frac{5}{100}$ = 0.05

Write the decimal in fraction form.

5. 0.06 = $\frac{6}{100}$
6. 0.24 = $\frac{24}{100}$
7. 0.70 = $\frac{70}{100}$
8. 0.931 = $\frac{931}{1,000}$

Write the missing decimals on the number line.

9.



Write the decimals from *least* to *greatest*.

10.

45.7	45.72	46.0	45
45	45.7	45.72	46.0

11.

0.04	0.4	0.041	0.45
0.04	0.041	0.4	0.45

Round the decimal to the given place.

		Ones	Tenths	Hundredths
12.	6.572	7	6.6	6.57
13.	24.160	24	24.2	24.16
14.	9.728	10	9.7	9.73
15.	0.536	1	0.5	0.54

Write >, <, or = to compare.

16. 1.8 < 18
17. 5.6 = 5.60
18. 2.009 < 2.09
19. 7.14 < 7.4
20. 41.6 > 4.16
21. 6.18 < 6.2
22. 30.05 > 3.005
23. 8.08 = 8.080

Round to the nearest whole number to estimate the product. Solve.

24. 30

$$\begin{array}{r} 4.68 \\ \times\ 5.8 \\ \hline 3744 \\ +23400 \\ \hline 27.144 \end{array}$$

25. 4

$$\begin{array}{r} 0.99 \\ \times\ 3.5 \\ \hline 495 \\ +2970 \\ \hline 3.465 \end{array}$$

26. 35

$$\begin{array}{r} 5.248 \\ \times\ 7 \\ \hline 36.736 \end{array}$$

27. 35

$$\begin{array}{r} 4.52 \\ \times\ 6.9 \\ \hline 4068 \\ +27120 \\ \hline 31.188 \end{array}$$

Solve.

28. $6\overline{)5.4}$ → 0.9; −54; 0

29. $2\overline{)6.18}$ → 3.09; −6; 018; −18; 0

30. $5\overline{)10.340}$ → 2.068; −10; 034; −30; 40; −40; 0

31. $3\overline{)\$12.36}$ → \$4.12; −12; 03; −3; 06; −6; 0

Write the division problem. Solve to find the equivalent decimal for the fraction.

32. $\frac{1}{4} = 0.25$

$4\overline{)1.00}$ → 0.25; −8; 20; −20; 0

33. $\frac{1}{2} = 0.5$

$2\overline{)1.0}$ → 0.5; −10; 0

34. $\frac{3}{4} = 0.75$

$4\overline{)3.00}$ → 0.75; −28; 20; −20; 0

Solve and label your answer.

35. Miss White had 24.8 pounds of candy for her class. If the candy lasted for 8 weeks, about how many pounds did she use each week?

$24.8 \div 8 = 3.1$ lb

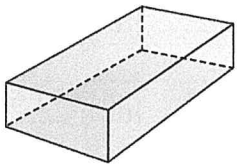
$8\overline{)24.8}$ → 3.1; −24; 08; −8; 0

Chapter 14 Assessment

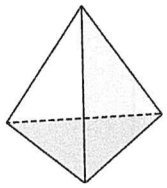
Name _____

Name the figure using a term from the word bank.

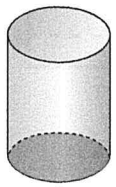
cone	cylinder	rectangular prism	sphere	square pyramid	triangular pyramid

1. 

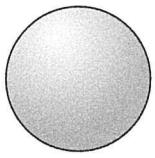
rectangular prism

2. 

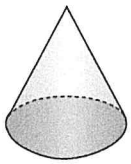
triangular pyramid

3. 

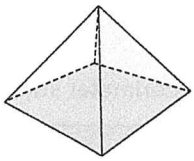
cylinder

4. 

sphere

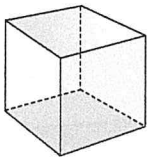
5. 

cone

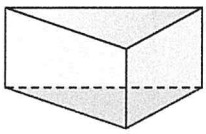
6. 

square pyramid

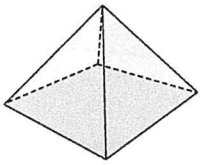
Identify the figure as a prism or a pyramid. Draw a line to match the figure to its net.

7. 

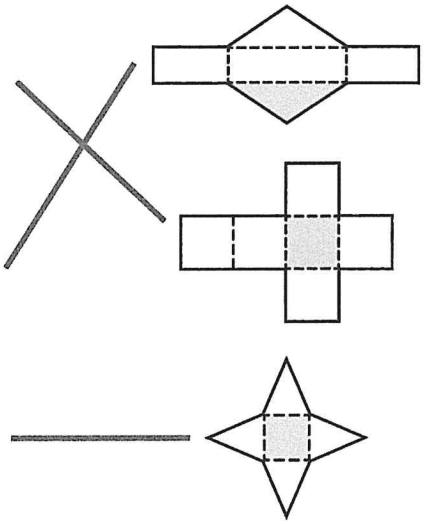
prism

8. 

prism

9. 

pyramid



Solve and label your answer.

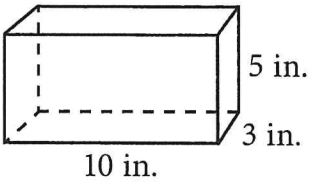
10. The Wetzel family is installing an above-ground pool in their backyard. The pool measures 5 yards by 3 yards. How many square yards of ground will the pool cover?

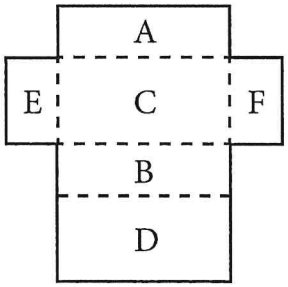
$5 \text{ yd} \times 3 \text{ yd} = 15 \text{ yd}^2$

11. The Wetzels will also install a fence around the pool. What is the least amount of fencing needed?

$5 \text{ yd} + 3 \text{ yd} + 5 \text{ yd} + 3 \text{ yd} = 16 \text{ yd}$

Find the surface area of the prism.





12.

A = 10 in. × 3 in. = 30 in.²
B = 10 in. × 3 in. = 30 in.²

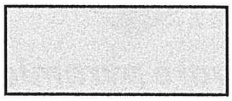
C = 10 in. × 5 in. = 50 in.²
D = 10 in. × 5 in. = 50 in.²

E = 3 in. × 5 in. = 15 in.²
F = 3 in. × 5 in. = 15 in.²

total surface area = 190 in.²

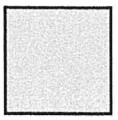
Find the perimeter and area of the figure.

13.



P = 14 yd
A = 10 yd²

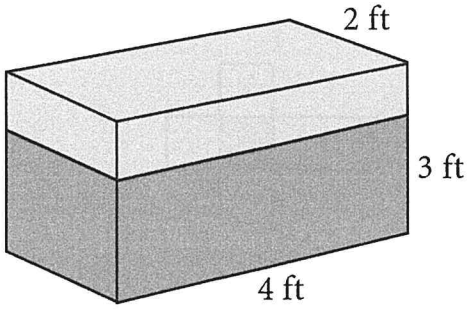
14.



P = 12 cm
A = 9 cm²

Write an equation to find the volume.

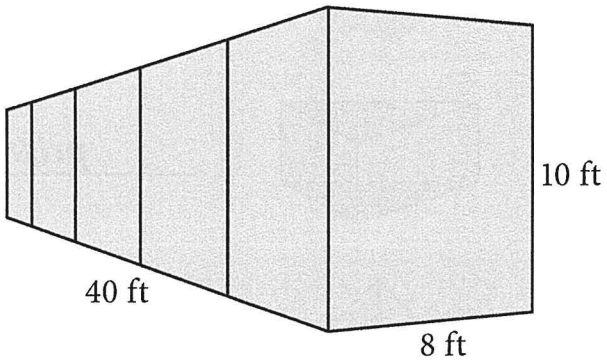
15.



How much cubic space is in the shoebox?

V = 4 ft × 3 ft × 2 ft = 24 ft³

16.



How many cubic feet of space are in the storage pod?

V = 40 ft × 8 ft × 10 ft = 3,200 ft³

Chapter 15 Assessment

Name _____

Write the unit used to measure the length: km, m, cm, or mm.

1. ___cm___ width of a cell phone
2. ___km___ distance from Rome to Paris
3. ___m___ length of a driveway
4. ___mm___ thickness of a stick of gum

Write the unit used to measure the capacity: L or mL.

5. ___mL___ a cup of hot chocolate
6. ___L___ a jug of iced tea

Write the unit used to measure the mass: kg, g, or mg.

7. ___g___ a highlighter
8. ___kg___ a large dog
9. ___mg___ a crystal of rock candy

Mark the best estimate.

10.	distance to church	● 4 km	○ 4 m	○ 400 cm
11.	a cracker	○ 4 kg	● 4 g	○ 4 mg
12.	length of a book	○ 30 mm	○ 300 m	● 30 cm
13.	a housecat	● 7 kg	○ 7 mg	○ 7 g
14.	a bottle of cola	○ 10 mL	● 1 L	○ 100 mL
15.	a snowflake	○ 1 kg	○ 10 g	● 1 mg
16.	water in a child's pool	○ 15 mL	○ 150 mL	● 150 L
17.	paint for a room	● 3 L	○ 30 mL	○ 30 L

Rename the units.

18. 100 cm = ___1___ m
19. 8 L = ___8,000___ mL
20. 4,000 g = ___4___ kg
21. 16 cm = ___160___ mm
22. 5 kg = ___5,000___ g
23. 3,000 mL = ___3___ L

Mark the answer.

24.	720 cm = ___?___ m	● 7.2	○ 0.072	○ 700.20
25.	2.685 kg = ___?___ g	○ 26.85	○ 0.0268	● 2,685
26.	3,754 m = ___?___ km	○ 3,754	○ 0.3754	● 3.754
27.	82 mm = ___?___ cm	○ 8,200	● 8.2	○ 0.082

Write >, <, or = to compare.

28. 7.154 L (>) 7,000 mL

29. 30 cm (>) 30 mm

30. 2,000 m (<) 200 km

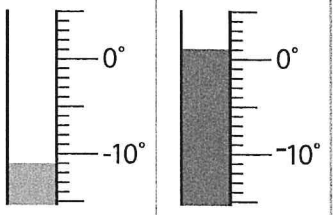
31. 6,000 mg (<) 600 g

32. 2,467 g (=) 2.467 kg

33. 30 cm (>) 80 mm

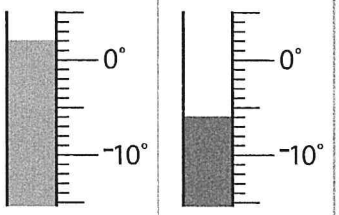
Write the Celsius temperature. Write the new temperature. Shade the second thermometer to show the new temperature.

34. The temperature rose 12 degrees.



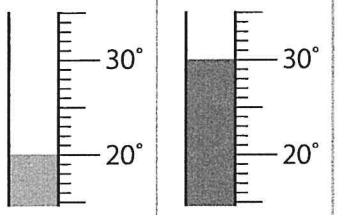
-11°C 1°C

35. The temperature dropped 8 degrees.



2°C -6°C

36. The temperature was 10 degrees warmer.



20°C 30°C

Solve. Rename if necessary.

37.
$$\begin{array}{r} 8\text{ kg }243\text{ g} \\ +\,2\text{ kg }981\text{ g} \\ \hline \end{array}$$
10 kg 1,224 g =
11 kg 224 g

38.
$$\begin{array}{r} {}^{4}\!5\text{ cm }{}^{16}\!6\text{ mm} \\ -\,3\text{ cm }14\text{ mm} \\ \hline \end{array}$$
1 cm 2 mm

39.
$$\begin{array}{r} 36\text{ m }93\text{ cm} \\ +\,31\text{ m }82\text{ cm} \\ \hline \end{array}$$
67 m 175 cm =
68 m 75 cm

Solve and label your answer.

40. Gabriella was 133 centimeters tall at the beginning of the school year. She ended the school year at 141 centimeters tall. How many centimeters did she grow?

141 cm − 133 cm = 8 cm

41. Bryan needs to recarpet his bedroom. The room is 5 meters long and 4 meters wide. How much carpet is needed?

5 m × 4 m = 20 m²

Chapter 16 Assessment

Name _____

Write the ratio in three forms.

1. Two out of 5 students are girls. _____ 2 to 5 2:5 $\frac{2}{5}$ _____

2. Three out of 14 families live on a farm. _____ 3 to 14 3:14 $\frac{3}{14}$ _____

Complete the unit rate.

3. \$48 : 8 hr = _____ \$6 _____ : 1 hr

4. 384 mi : 12 gal = _____ 32 mi _____ : 1 gal

Find the distance traveled in the given time.

5. 3 days at 24 mi/day = _____ 72 _____ mi

6. 2.5 hr at 60 mi/hr = _____ 150 _____ mi

Complete the proportion.

7. $\frac{60}{20} = \frac{15}{5}$

8. $\frac{4}{8} = \frac{24}{48}$

9. $\frac{5}{12} = \frac{25}{60}$

10. $\frac{64}{56} = \frac{8}{7}$

Solve and label your answer. *Equations may vary.*

11. Forrest was paid \$32 for working 4 hours. What was his rate of pay per hour?

    \$32 ÷ 4 = \$8/hr

12. Fruit costs \$1.19 per can. How much will 5 cans of fruit cost?

    5 × \$1.19 = \$5.95

13. The bus traveled 140 miles in 3 hours. At this rate how many miles will the bus travel in 6 hours?

    140 : 3 = 280 : 6; 280 mi

14. Sandi can type 98 words in 2 minutes. What is her typing rate per minute?

    $\frac{98}{2}$ = 49 words/min

Write the ratio as a percent.

15. 6 : 100 = 6%

16. $\frac{3}{10}$ = 30%

17. $\frac{82}{100}$ = 82%

18. 17 to 100 = 17%

Write the percent as a fraction in lowest terms.

19. 40% = $\frac{2}{5}$

20. 70% = $\frac{7}{10}$

21. 25% = $\frac{1}{4}$

22. 20% = $\frac{1}{5}$

Write the percent in decimal form. Write the decimal in percent form.

23. 35% = 0.35

24. 18% = 0.18

25. 0.99 = 99%

26. 0.04 = 4%

Find the percent of the number.

27. 10% of 40 = 4

28. 30% of 40 = 12

29. 10% of 70 = 7

30. 40% of 70 = 28

Solve and label your answer. *Equations may vary.*

31. On Friday, 6 of Mrs. McCauley's 25 students purchased hot lunches. What percent of her class purchased a hot lunch?

$\frac{6}{25} = \frac{24}{100}$; 24%

32. During volleyball season, the Mustangs lost 4 of the 20 games they played. What percent of their games did the Mustangs lose?

$\frac{4}{20} = \frac{20}{100}$; 20%

33. A pair of shoes that are regularly priced at $60 are on sale for 20% off. What is the sale price for the pair of shoes?

$0.2 \times \$60 = \$12$; $\$60 - \$12 = \$48$

Chapter 17 Assessment

Name _____

Write > or < to compare.

1. $6 \textcircled{>} {}^{-}3$
2. ${}^{-}15 \textcircled{>} {}^{-}20$
3. ${}^{-}55 \textcircled{>} {}^{-}70$
4. ${}^{-}9 \textcircled{<} 0$

Write the numbers from *least* to *greatest*.

5. $-7, 7, 0, -1$

   -7, -1, 0, 7

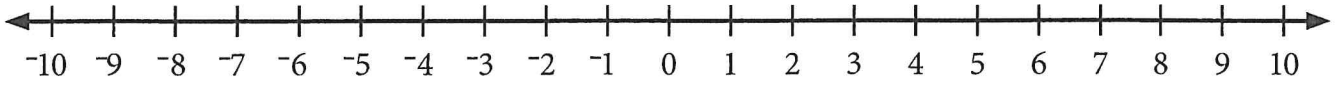
6. $0, 13, -11, -1$

   -11, -1, 0, 13

7. $4, 8, -6, -11$

   -11, -6, 4, 8

Use the number line to solve the equation.



8. ${}^{-}3 + 3 =$ *0*
9. $8 + {}^{-}1 =$ *7*
10. $2 + {}^{-}7 =$ *-5*
11. ${}^{-}2 + {}^{-}2 =$ *-4*
12. ${}^{-}6 + {}^{-}2 =$ *-8*
13. ${}^{-}7 + 5 =$ *-2*

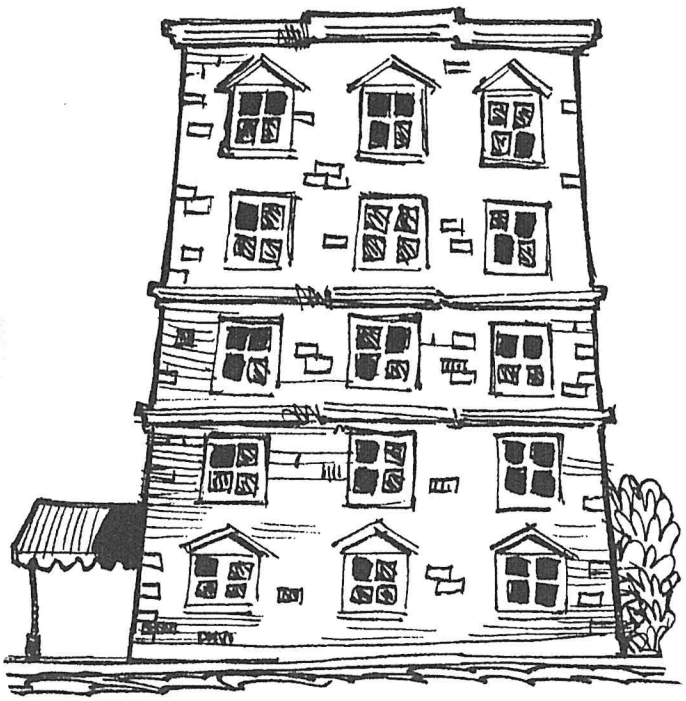
Write a positive or negative number to match the phrase.

14. ten feet below sea level *-10*
15. twenty-dollar increase in pay *20*
16. fifty dollars earned *50*
17. six miles under the speed limit *-6*

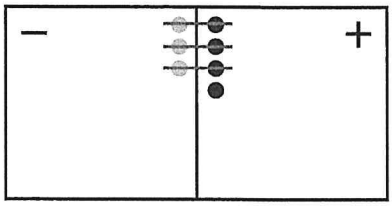
Solve and label your answer.

18. The five-story apartment building has an underground parking garage. If the building has a seven-floor elevator, how many floors are in the parking garage?

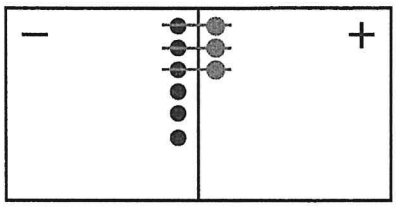
2 floors



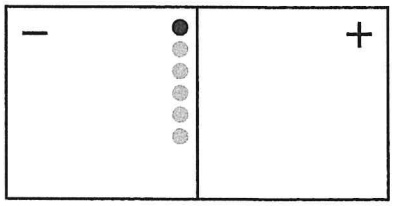
The first addend is on the mat. Draw counters for the second addend. Solve.

19. 

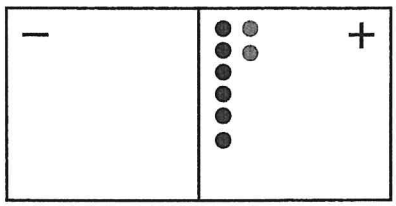
$4 + {}^{-}3 =$ 1

20. 

${}^{-}6 + 3 =$ -3

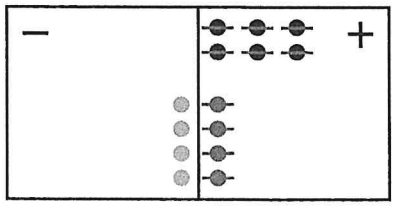
21. 

${}^{-}1 + {}^{-}5 =$ -6

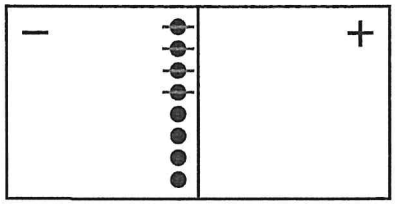
22. 

$6 + 2 =$ 8

The minuend is on the mat. Draw counters for the subtrahend as needed. Solve.

23. 

$6 - 10 =$ -4

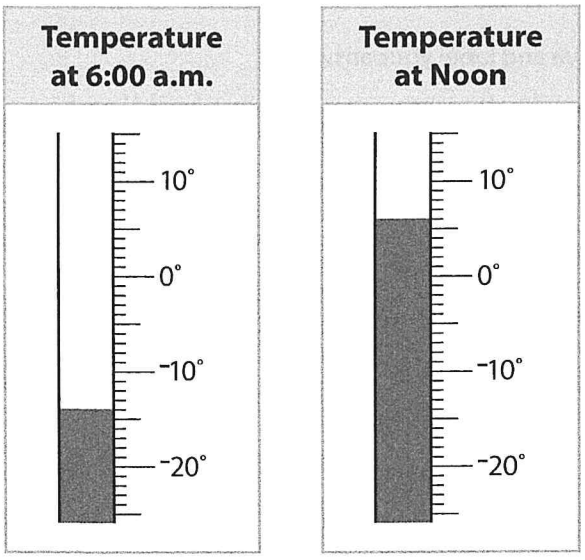
24. 

${}^{-}8 - {}^{-}4 =$ -4

Solve and label your answer. Shade the thermometers to show the temperatures.

25. One day last winter the temperature at 6:00 a.m. was ${}^{-}14$°F. If the temperature rose 20 degrees by noon, what was the temperature at noon?

6°F



Chapter 18 Assessment

Name _____

Use the pictograph to find the answer.

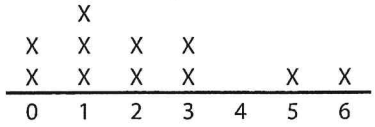
1. Who spent the most money? *Paul*
2. How much more did Paul spend than Mark? *$200*
3. Who spent $375? *Ezekiel*
4. How much did Joseph spend? *$250*

Money Spent for Camp	
Joseph	
Mark	
Paul	
Ezekiel	

= $100

Use the line plot to find the answer.

Goals Scored per Soccer Game



5. Scores were recorded for ? games.
   ○ 7 ● 11 ○ 24
6. The most goals scored in a game was ?.
   ○ 1 ○ 4 ● 6
7. In how many games did the team score no goals?
   ○ 0 ● 2 ○ 3

Use the data to complete the stem-and-leaf plot.
Answer the questions.

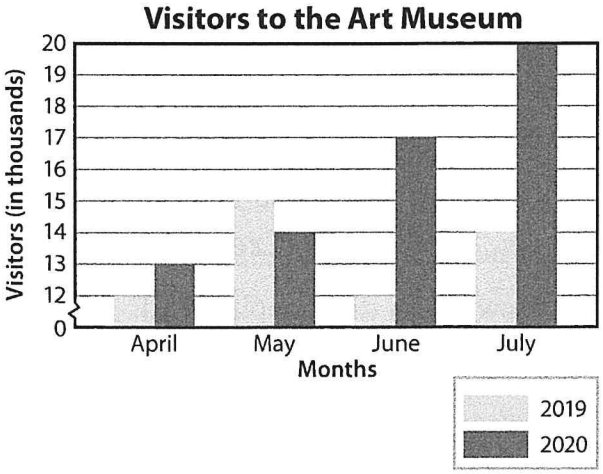
The scores for the science test were 95, 82, 78, 95, 89, 92, 95, 84, and 100.

8. What is the range of the test scores?
   ○ 3 ● 22 ○ 100
9. The median test score is ?.
   ● 92 ○ 94 ○ 99
10. The mode of the test scores is ?.
    ○ 92 ● 95 ○ 99
11. The mean (average) of the test scores is ?.
    ○ 79 ● 90 ○ 98

Science Test Scores	
Stem	Leaf
7	8
8	2 4 9
9	2 5 5 5
10	0

Key: 9|2 = 92

Use the bar graph to find the answer.



12. Which year shows a steady increase of visitors from April to July?

2020

13. During which 2 months in 2019 did the museum have the same number of visitors?

April and *June*

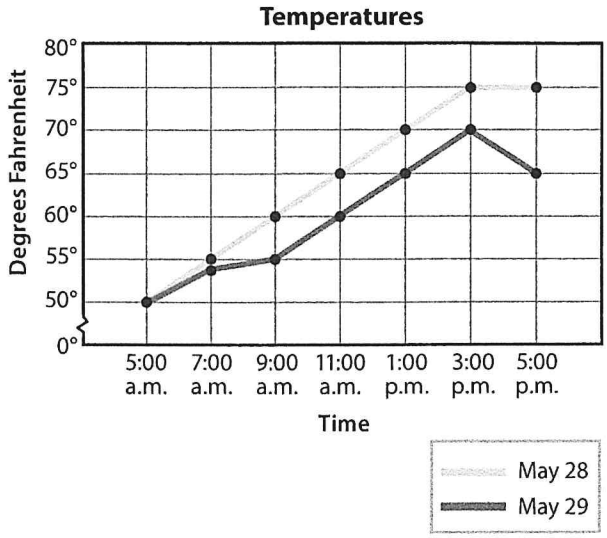
14. During which month in 2019 did the museum have the greatest number of visitors?

May

15. During which month did the museum have fewer visitors in 2020 than in 2019?

May

Use the line graph to find the answer.



16. Were the temperatures cooler on May 28 or 29?

May 29

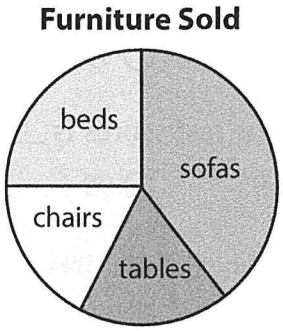
17. At what time of day was the temperature the same for both days?

5:00 a.m.

18. At what time of day on May 29 was the temperature 70°F?

3:00 p.m.

Use the circle graph to find the answer.



19. What type of furniture sold the most?

sofas

20. About what fraction of the furniture sold was beds?

$\frac{1}{4}$

21. Which two types of furniture sold about the same?

chairs, tables