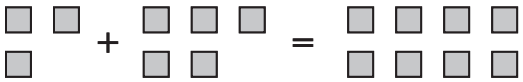
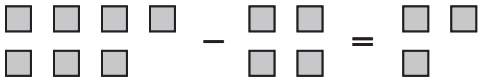
NAME _____ DATE _____ PERIOD _____

Lesson 1-1

Practice: Skills

Name each operation modeled.

1  _____

2  _____

Name the operation needed to solve each problem. Write a number sentence to solve each problem.

3 **BANKING** Juan has $75 in a bank account. Today he deposited $12 in the account. How much money is in the account now? _____

4 **MOVIES** A movie is 128 minutes long. Shari has watched the movie for 58 minutes. How many minutes of the movie are left? _____

5 **KNITTING** Darla used 550 yards of yarn to knit a scarf. She used 300 yards of yarn to knit a hat. How many yards of yarn did she use in all? _____

6 **FOOTBALL** The football team scored 14 points in the first half of the game. They scored 6 points in the second half of the game. How many points did the team score in all? _____

7 **CAMERAS** A digital camera costs $87. Next week the camera will be on sale for $55. How much money will Carla save if she buys the camera when it is on sale? _____

8 **CYCLING** Lance biked 28 miles last week and 37 miles this week. How many more miles did Lance bike this week than last week? _____

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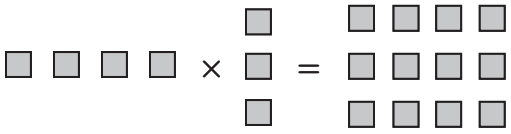
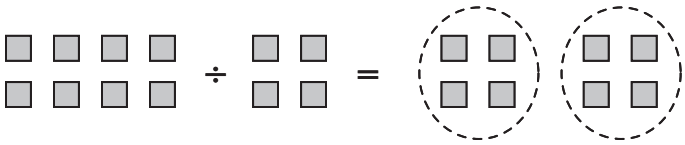
Lesson 1-2

Practice: Skills

Name each operation modeled.

1 

_____

2 

_____

Name the operation needed to solve each problem. Write a number sentence to solve the problem.

3 **PACKAGING** Kelly bought 3 boxes of granola bars. There were 6 granola bars in each box. How many granola bars did Kelly buy?

_____

4 **MOVIES** Mr. Sanchez bought 5 movie tickets. Each ticket cost $9. How much did Mr. Sanchez spend?

_____

5 **KNITTING** Sara has 80 yards of yarn to make bookmarks. Each bookmark uses 8 yards of yarn. How many bookmarks can Sara make?

_____

6 **DOGS** Leo's dog eats 8 ounces of food each day. How many ounces of food does his dog eat in 7 days?

_____

7 **AMUSEMENT PARKS** A Ferris wheel can hold 120 people. Each car can hold 6 people. How many cars are on the Ferris wheel?

_____

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Lesson 1-3

Practice: Skills

1 Show that adding 4 to each side of $(5 + 3) = (6 + 2)$ results in a true equation.

2 Show that multiplying by 3 on each side of $(3 \cdot 2) = (6 \cdot 1)$ results in a true equation.

Show that adding or multiplying a number on each side results in a true equation.

3 $(8 + 6) + 3 = (10 + 4) + 3$

$_____ + 3 = _____ + 3$

$_____ = _____$

4 $(2 \cdot 5) \cdot 5 = (10 \cdot 1) \cdot 5$

$_____ \cdot 5 = _____ \cdot 5$

$_____ = _____$

5 $(2 \cdot 8) \cdot 2 = (4 \cdot 4) \cdot 2$

$_____ \cdot 2 = _____ \cdot 2$

$_____ = _____$

6 $(10 + 8) + 1 = (12 + 6) + 1$

$_____ + 1 = _____ + 1$

$_____ = _____$

7 $(5 + 2) + 6 = (3 + 4) + 6$

$_____ + 6 = _____ + 6$

$_____ = _____$

8 $(5 \cdot 4) \cdot 3 = (10 \cdot 2) \cdot 3$

$_____ \cdot 3 = _____ \cdot 3$

$_____ = _____$

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Lesson 1-4

Practice: Skills

Find the value of the box or the variable by modeling the equation.

1 $3 + \square = 8$

$\square =$ _____

2 $15 - n = 9$

$n =$ _____

Find the value for the box or the variable in each equation.

3 $\square + 12 = 19$

$\square =$ _____

4 $8 \times y = 24$

$y =$ _____

5 $20 - a = 14$

$a =$ _____

6 $\frac{y}{3} = 5$

$y =$ _____

7 $7 + \square = 32$

$\square =$ _____

8 $a \times 20 = 100$

$a =$ _____

9 $y - 14 = 16$

$y =$ _____

10 $\frac{x}{5} = 8$

$x =$ _____

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Practice: Skills

Draw a model to show each equation.

1. $4 + 2 = 2 + 4$. Which property did you show?

_____

2. $3 \cdot 5 = 5 \cdot 3$. Which property did you show?

_____

Use the Commutative Properties to fill in each blank. Check your answer.

3. $8 + 7 =$ _____ $+ 8$

_____ = _____

4. $5 +$ _____ $= 4 + 5$

_____ = _____

5. _____ $\cdot 9 = 9 \cdot 4$

_____ = _____

6. $9 + 22 = 22 +$ _____

_____ = _____

7. $3 \cdot 5 = 5 \cdot$ _____

_____ = _____

8. $15 +$ _____ $= 45 + 15$

_____ = _____

9. _____ $\cdot 7 = 7 \cdot 11$

_____ = _____

10. $2 \cdot 8 =$ _____ $\cdot 2$

_____ = _____

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Practice: Skills

Draw a model to show $(2 + 4) + 4 = 2 + (4 + 4)$. Which property did you show?

1

_____

Draw two different arrays to show the equation $(3 \cdot 5) \cdot 2 = 3 \cdot (5 \cdot 2)$. Which property did you show?

2

_____

Use the Associative Properties to find each sum or product mentally.

3 $4 + 5 + 8$

$= (____ + ____) + ____$

$= ____ + ____$

$= ____$

4 $7 \cdot 2 \cdot 3$

$= (____ \cdot ____) \cdot ____$

$= ____ \cdot ____$

$= ____$

5 $8 + 1 + 12$

$= (____ + ____) + ____$

$= ____ + ____$

$= ____$

6 $6 \times 2 \times 5$

$= (____ \cdot ____) \cdot ____$

$= ____ \cdot ____$

$= ____$

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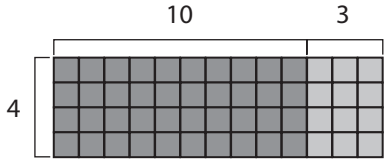
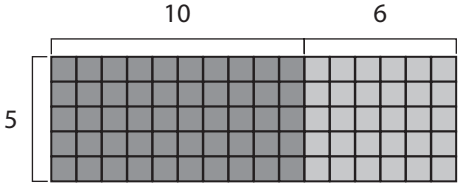
Practice: Skills

Use the Distributive Property and a model to find each product.

1 $13 \cdot 4 =$ _____



2 $16 \cdot 5 =$ _____



Use the Distributive Property to find each product.

3 $3(4 + 8)$

$=$ _____ $+$ _____

$=$ _____

4 $4(x + 7)$

$=$ _____ $+$ _____

$=$ _____

5 $10(12 + 2)$

$=$ _____ $+$ _____

$=$ _____

6 $9(3 - b)$

$=$ _____ $-$ _____

$=$ _____

7 $9(11 - 5)$

$=$ _____ $-$ _____

$=$ _____

8 $2(15 + 4)$

$=$ _____ $+$ _____

$=$ _____

9 $8(z + 11)$

$=$ _____ $+$ _____

$=$ _____

10 $7(14 - 9)$

$=$ _____ $-$ _____

$=$ _____

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Practice: Skills

Name the step that should be performed first in each expression.

1. $8 \cdot 6 \div (4 + 2) - 4^2$

   _____

2. $3 \cdot 6 + 3^2 + 9 \div 3$

   _____

3. $1 \div 5 - 3 + 2 \cdot 6$

   _____

4. $9 - 2 + (12 \cdot 6) + 9$

   _____

5. $8 \cdot 6^2 \div 12 - 2 \cdot 6$

   _____

6. $10 \div 2 \cdot 5 - 1 + 4$

   _____

Find the value of each expression.

7. $4 \cdot (2 + 6) - 30 + 4^2$

   parentheses: $4 \cdot$ _____ $- 30 + 4^2$

   exponents: $4 \cdot$ _____ $- 30 +$ _____

   multiply/divide: _____ $- 30 +$ _____

   add/subtract: _____ $+$ _____

   _____

8. $9 + 7 \cdot 2 - 3^2 + (1 \cdot 8)$

   parentheses: $9 + 7 \cdot 2 - 3^2 +$ _____

   exponents: $9 + 7 \cdot 2 -$ _____ $+$ _____

   multiply/divide: $9 +$ ____ $-$ ____ $+$ ____

   add/subtract: _____ $-$ _____ $+$ _____

   _____

9. $7 - 4 \div 2 + 5^2$

   _____

10. $12 \div 4 \cdot 2^2 - (3 + 2)$

    _____

11. $14 \cdot 2 \div (8 - 4) + 9$

    _____

12. $10 - (2 + 4) + 2 \cdot 5$

    _____

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Lesson 3-1

Practice: Skills

Write three different expressions for each constant term and variable.

1. Constant term: 7 Variable: f _____

2. Constant term: 3 Variable: g _____

List the variable, constant, and coefficient in each expression.

3. $3x + 4$
   variable: _____
   constant: _____
   coefficient: _____

4. $7p - 12$
   variable: _____
   constant: _____
   coefficient: _____

5. $\frac{r}{5} + 8$
   variable: _____
   constant: _____
   coefficient: _____

6. $13 - 9b$
   variable: _____
   constant: _____
   coefficient: _____

7. $2t + 1$
   variable: _____
   constant: _____
   coefficient: _____

8. $m - 3$
   variable: _____
   constant: _____
   coefficient: _____

9. $-4\ell + 20$
   variable: _____
   constant: _____
   coefficient: _____

10. $\frac{-s}{8} - 14$
    variable: _____
    constant: _____
    coefficient: _____

11. $-11 - \frac{q}{6}$
    variable: _____
    constant: _____
    coefficient: _____

12. $\frac{i}{4} + 2$
    variable: _____
    constant: _____
    coefficient: _____

Write an expression for each set of terms.

13. $5r$ and 17 _____

14. $6t$ and 1 _____

15. $\frac{x}{3}$ and 2 _____

16. $9u$ and 11 _____

17. n and 4 _____

18. 6 and $8a$ _____

19. $7l$ and 5 _____

20. $\frac{p}{10}$ and 12 _____

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Lesson 3-2

Practice: Skills

For each phrase, name the operation.

1. the sum of b and 8 _____
2. r divided by 10 _____
3. the difference of 22 and p _____
4. 5 times y _____
5. 100 decreased by m _____
6. 24 separated into c equal groups _____

Translate each phrase to an expression.

7. a number minus 9 _____
8. 7 times a number _____
9. product of 15 and a number _____
10. a number divided by 2 _____
11. 42 minus a number _____
12. sum of a number and 33 _____
13. 48 divided by a number _____
14. 8 added to a number _____
15. twice a number _____
16. 14 less than a number _____
17. 22 more than a number _____
18. the quotient of a number and 64 _____
19. take away 1 from a number _____
20. a number divided by 3 _____

Write an expression to represent each situation.

21. Lisa found 15 more shells today.

    _____

22. Dario earned $6 for each hour of work.

    _____

23. Tyra gave 3 dolls to her little sister.

    _____

24. Ting ran 5 miles each day.

    _____

25. Odina drove 2,000 miles in equal shifts.

    _____

26. Rajeev bought some CDs that were $16 each.

    _____

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Lesson 3-3

Practice: Skills

Name the like terms in each expression.

1. $5n + 2 + 13 + n$ _____
2. $12 + 9s^2 - 1 + 8s^2$ _____
3. $4z + 20 - 3z + 10z$ _____
4. $7l + 3l^2 + 8l + l^2 - 6$ _____
5. $3f^2 + 11f + 2 - 4f - 1 + 7f^2$ _____
6. $6g^2 + 15g - 9 + 9g^2$ _____
7. $14y + 9 - 2 + y$ _____
8. $12w + 4 - 2 + 8 + 3$ _____
9. $8h + h + 16 - 6$ _____
10. $12p^2 + 5p - 3p^2 + 18 + 4p - 9$ _____

Combine each pair of terms, if possible.

11. $3x$ and $8x$ _____
12. $18l^2$ and $15j^2$ _____
13. $4y^2$ and $11x^2$ _____
14. 19 and 52 _____
15. 5 and 100 _____
16. $2r^2$ and $22r^2$ _____
17. $9n$ and n _____
18. 31 and $7b$ _____

Simplify each expression.

19. $4t + 18 + 10t - 3 + 8$ _____
20. $3d + 17d$ _____
21. $8a + 15 - 6 + 3a$ _____
22. $12u^2 + 5u + u - 4 + 3u^2 - 4$ _____
23. $3y^2 + 5y - 2 + 5y + 3$ _____
24. $c^2 + 10c + 7 - 3c + 4c^2 + 3$ _____
25. $9k + 6k + 14 - 3k - 7$ _____
26. $2g + 5g^2 + 6 + 2g - 9$ _____
27. $7r + 8 - 2r - 15$ _____
28. $8m^2 + 4m - m^2 + 6m + 5 - 1$ _____

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Lesson 3-4

Practice: Skills

Identify the operation to be done first.

1. $70 \div 10 \cdot 8$ _____
2. $(31 - 17) \cdot 4 + 9$ _____
3. $18 - 6 + 27$ _____
4. $3 + 5^2 + 1 - 6$ _____
5. $13 \cdot (3 + 22)$ _____
6. $5 + 8 + 7 + 12 - 4$ _____
7. $19 - 4 + 9 \div 3$ _____
8. $9 + 2 + 3 + 11 \cdot 2$ _____

Write each expression after replacing the ☐ with 8. Evaluate.

9. $21 + ☐$ _____
10. $64 \div ☐$ _____
11. $5 \cdot ☐$ _____
12. $☐ + 14$ _____
13. $☐ \div 2$ _____
14. $36 - ☐$ _____
15. $2 \cdot ☐ + 17$ _____
16. $56 - 4 \cdot ☐$ _____
17. $80 - 3 \cdot ☐ + 5$ _____
18. $3 \cdot ☐ + 24 \div ☐$ _____

Evaluate each expression when $a = 3$, $b = 4$, $c = 5$, and $d = 7$.

19. $8a + b^2 - (55 \div c)$ _____
20. $3d - b + 6 - a^2$ _____
21. $(18 + d) + 12 \cdot (c - b)$ _____
22. $10b + c^2 - (16 - 7)$ _____
23. $12 - b \div 2 + (b + c)^2$ _____
24. $9b \div 6 + 15 + (a \cdot b)^2$ _____
25. $(11c - 10a) \div c + 42$ _____
26. $b + 6d - (a \cdot b) + a^2$ _____
27. $10 - c + 12 - b + 9d$ _____
28. $14 + a^2 \cdot d - 6 + (b \div 2) - 8$ _____

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Lesson 4-1

Practice: Skills

Write the operation in each sentence.

1. The product of 5 and a number is 45. _____
2. The difference between 23 and a number is 12. _____
3. Six more than a number is 30. _____
4. The quotient of 40 and a number is 8. _____

Who is correct?

5. There are a total of 36 pieces of fruit. There are 6 more apples than oranges.

_____

Andrew	Edgar
$a + 0 = 36$ $a = 0 + 6$	$a + 36 = 0$ $a = 0 + 6$

6. There are 10 more boys than girls in the band. Altogether there are 56 band members.

_____

Sara	Paka
$g + b = 56$ $g = b + 10$	$g + b = 56$ $b = g + 10$

Translate each sentence into an equation.

7. Three less than a number is 8. _____
8. A number increased by 15 is 27. _____
9. Forty-eight divided by a number is 16. _____
10. Seven less than twice a number is 9. _____
11. Twenty-eight divided into y equal groups is 7. _____

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Lesson 4-2

Practice: Skills

Draw a model to represent the equation. Solve the equation.

1 $x + 4 = 9$

$x =$ _____

Find four solutions of each equation. Show each solution in a table of ordered pairs.

2 $y = x + 1$

x	$y = x + 1$	y	(x, y)
-1	$y = -1 + 1$	0	$(-1, 0)$
0			
1			
2			

3 $y = x - 2$

x	$y = x - 2$	y	(x, y)
-1	$y = -1 - 2$	-3	$(-1, -3)$
0			
1			
2			

Solve.

4 $t - 10 = 6$

$t =$ _____

5 $n + 5 = 17$

$n =$ _____

6 $9 = h - 2$

$h =$ _____

7 $14 = y + 1$

$y =$ _____

8 $x + 3 = 7$

$x =$ _____

9 $8 = u - 1$

$u =$ _____

Who Is Correct?

10 $h - 5 = 6$; if $h = 11$, show how to check the answer using inverse operations. Who is correct?

_____

11 $x + 7 = 20$; if $x = 13$, show how to check the answer using inverse operations. Who is correct?

_____

Maria	Galine	Elle
$h - 5 = 6$ $h - 5 = 6 + 11$	$h - 5 = 6$ $11 - 5 = 6$, so $6 + 5 = 11$	$h - 5 = 6$ $11 - 5 = 6$

Peyton	Hunter	Shiro
$x + 7 = 20$ $13 + 7 = 20$, so $20 - 7 = 13$	$x + 7 = 20$ $13 + 7 = 20$	$x + 7 = 20$ $x + 7 = 20 - 13$

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Lesson 4-3

Practice: Skills

Solve each equation.

1. $\frac{k}{7} = 3$

   $k =$ _____

2. $8z = 24$

   $z =$ _____

3. $9w = 54$

   $w =$ _____

4. $\frac{x}{2} = 8$

   $x =$ _____

Find four solutions of each equation. Show each solution in a table of ordered pairs.

5. $y = 2x$

x	$y = 2x$	y	(x, y)
-1	$y = 2(-1)$	-2	$(-1, -2)$
0			
1			
2			

6. $y = \frac{x}{2}$

x	$y = \frac{x}{2}$	y	(x, y)
-1	$y = -1 \div 2$	-0.5	$(-1, -0.5)$
0			
1			
2			

Who Is Correct?

7. Solve the equation $9x = 18$.
   Who is correct?

   _____

8. Solve the equation $\frac{f}{2} = 6$.
   Who is correct?

   _____

Alaina

$9x = 18$
$9x \cdot = 18 \cdot 9$
$x = 162$

Michael

$9x = 18$
$9x - 9 = 18 - 9$
$x = 9$

Christopher

$9x = 18$
$9x \div 9 = 18 \div 9$
$x = 2$

Amber

$\frac{f}{2} = 6$
$\frac{f}{2} \div 2 = 6 \div 2$
$f = 3$

Ramiro

$\frac{f}{2} = 6$
$\frac{f}{2} \times 2 = 6 \times 2$
$f = 12$

Maurice

$\frac{f}{2} = 6$
$\frac{f}{2} + 2 = 6 + 2$
$f = 8$

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Lesson 4-4

Practice: Skills

Write the operations in the order that should be used to solve each equation.

1 $5x - 4 = 42$

_____

2 $3k + 2 = 23$

_____

3 $\frac{v}{2} + 6 = 11$

_____

4 $\frac{n}{4} - 1 = 2$

_____

Who Is Correct?

5 Solve the equation $3n - 7 = 17$. Who is correct?

_____

Ima	George	Carol
$3n - 7 = 17$	$3n - 7 = 17$	$3n - 7 = 17$
$3n - 7 + 7 = 17 + 7$	$3n - 7 - 7 = 17 - 7$	$3n - 7 + 7 = 17 + 7$
$3n = 24$	$3n = 10$	$3n = 24$
$3n/3 = 24/3$	$3n - 3 = 10 - 3$	$3n - 3 = 24 - 3$
$n = 8$	$n = 7$	$n = 21$

6 Solve the equation $\frac{x}{2} + 1 = 7$. Who is correct?

_____

Phillip	Monica	Cho
$\frac{x}{2} + 1 = 7$	$\frac{x}{2} + 1 = 7$	$\frac{x}{2} + 1 = 7$
$\frac{x}{2} + 1 + 1 = 7 + 1$	$\frac{x}{2} + 1 - 1 = 7 - 1$	$\frac{x}{2} + 1 - 1 = 7 - 1$
$\frac{x}{2} = 8$	$\frac{x}{2} = 6$	$\frac{x}{2} = 6$
$\frac{x}{2} \times 2 = 8 \times 2$	$\frac{x}{2} \div 2 = 6 \div 2$	$\frac{x}{2} \times 2 = 6 \times 2$
$x = 16$	$x = 3$	$x = 12$

Solve.

7 $7y + 5 = 33$

$y =$ _____

8 $3a - 8 = 7$

$a =$ _____

9 $\frac{b}{8} + 7 = 9$

$b =$ _____

10 $\frac{n}{5} + 3 = 5$

$n =$ _____

11 $2m + 3 = 17$

$m =$ _____

12 $\frac{v}{2} - 1 = 6$

$v =$ _____

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Lesson 4-5

Practice: Skills

Write each fraction as a decimal.

1. $\frac{7}{10} =$ _____
2. $\frac{3}{5} =$ _____
3. $\frac{4}{5} =$ _____
4. $\frac{41}{100} =$ _____
5. $\frac{33}{100} =$ _____
6. $\frac{5}{8} =$ _____

Write each percent as a decimal.

7. $24\% =$ _____
8. $90\% =$ _____
9. $11.5\% =$ _____
10. $75\% =$ _____
11. $68\% =$ _____
12. $8\% =$ _____
13. $50\% =$ _____
14. $43\% =$ _____

Write each fraction as a percent. Round to the nearest hundredth.

15. $\frac{2}{5}$ _____
16. $\frac{2}{8}$ _____
17. $\frac{2}{6}$ _____
18. $\frac{2}{3}$ _____
19. $\frac{3}{15}$ _____
20. $\frac{4}{9}$ _____

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Lesson 5-1

Practice: Skills

Write the symbol that should be used for each inequality.

1. Twenty is less than a number. _____

2. A number is less than or equal to 15. _____

3. Three times a number minus 6 is not equal to 9. _____

4. The quotient of a number and 9 is greater than 3. _____

Who is Correct?

5. A class is asked to write an inequality for the following sentence. A number divided by 4 is not equal to 5. Who is correct? _____

Igor	Arnold	Owen
$\frac{n}{4} \leq 5$	$\frac{n}{4} > 5$	$\frac{n}{4} \neq 5$

6. A class is asked to write an inequality for the following sentence. Twelve is less than the product of a number and three. Who is correct? _____

Daphne	Ben	Gene
$12 < 3n$	$12 < n + 3$	$12 \leq 3n$

Translate each sentence to an inequality.

7. The quotient of 12 and a number is less than 3. _____

8. Six is greater than or equal to a number. _____

9. A number plus 8 is not equal to 10. _____

10. A number times 5 minus 1 is less than or equal to 9. _____

11. A number divided by 2 plus 7 is more than 15. _____

12. The product of 4 and a number plus 12 is not equal to 40. _____

Chapter 5

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Lesson 5-2

Practice: Skills

Write the operation that should be used for each inequality.

1. $n - 4 \leq 23$ _____
2. $x + 8 > 12$ _____
3. $31 < h + 9$ _____
4. $2 \geq p - 11$ _____

Who is Correct?

5. Solve the inequality $x - 1 < 12$. Who is correct? _____

Edgar	Debra	Patricia
$x-1<12$	$x-1<12$	$x-1<12$
$x-1-1<12-1$	$x-1+1<12+1$	$x<12$
$x<11$	$x<13$	

6. Solve the inequality $6 \geq y - 5$. Who is correct? _____

Stella	Tamera	Vlad
$6\geq y-5$	$6\geq y-5$	$6\geq y-5$
$y\geq 6-5$	$6-5\geq y$	$6+5\geq y-5+5$
$y\geq 1$	$1\geq y$	$11\geq y$

7. Solve the inequality $n + 1 > 7$. Who is correct? _____

Faith	Akio	Deshi
$n+1>7$	$n+1>7$	$n+1>7$
$n+1-1>7$	$n+1+1>7+1$	$n+1-1>7-1$
$n>7$	$n>8$	$n>6$

Solve.

8. $m + 7 < 24$
   $m <$ _____
9. $x - 10 \geq 14$
   $x \geq$ _____
10. $7 \leq n + 2$
    _____ $\leq n$
11. $h + 3 < 15$
    $h <$ _____
12. $x + 6 > 6$
    $x >$ _____
13. $5 \geq k - 7$
    _____ $\geq k$

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Lesson 5-3

Practice: Skills

Write the operation that should be used to solve each inequality.

1. $9a \geq 45$ _____

2. $\frac{f}{2} \leq 7$ _____

3. $\frac{a}{6} > 24$ _____

4. $10n < 50$ _____

Who is Correct?

5. Solve the inequality $2p \leq 10$. Who is correct? _____

Julie	Raymond	Tipene
$2p \leq 10$	$2p \leq 10$	$2p \leq 10$
$\frac{2p}{10} \leq \frac{10}{10}$	$\frac{2p}{2} \leq \frac{10}{2}$	$2p \cdot 2 \leq 10 \cdot 2$
$p \leq 1$	$p \leq 5$	$p \leq 20$

6. Solve the inequality $\frac{c}{11} > 8$. Who is correct? _____

Nadia	Mandy	Vincent
$\frac{c}{11} > 8$	$\frac{c}{11} > 8$	$\frac{c}{11} > 8$
$\frac{c}{11} \cdot 11 > 8 \cdot 11$	$\frac{c}{11} \cdot 8 > 8 \cdot 8$	$\frac{c}{11} \div 11 > 8 \div 11$
$c > 88$	$c > 64$	$c > \frac{8}{11}$

Solve.

7. $\frac{x}{12} \geq 3$

   $x \geq$ _____

8. $11h < 22$

   $h <$ _____

9. $5n < 15$

   $n <$ _____

10. $\frac{y}{3} \leq 6$

    $y \leq$ _____

11. $3y \geq 27$

    $y \geq$ _____

12. $\frac{h}{7} < 12$

    $h <$ _____

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Lesson 5-4

Practice: Skills

Write the operations in the order that should be used to solve each inequality.

1. $5n - 7 < 8$ _____

2. $19 \geq 3q + 4$ _____

3. $\frac{x}{2} + 1 \leq 6$ _____

4. $\frac{f}{6} > -23$ _____

Who is Correct?

5. Solve the inequality $7n - 4 \geq 10$. Who is correct? _____

Tito	Robert	Miranda
$7n - 4 \geq 10$	$7n - 4 \geq 10$	$7n - 4 \geq 10$
$7n - 4 + 4 \geq 10 + 4$	$7n - 4 - 4 \geq 10 - 4$	$7n - 4 + 4 \geq 10 + 4$
$7n \geq 14$	$7n \geq 6$	$7n \geq 14$
$7n \div 7 \geq 14 \div 7$	$7n \cdot 7 \geq 6 \cdot 7$	$7n \div 7 \geq 14$
$n \geq 2$	$n \geq 42$	$n \geq 14$

6. Solve the inequality $\frac{m}{3} + 2 > 6$. Who is correct? _____

Serena	Ben	Sally
$\frac{m}{3} + 2 > 6$	$\frac{m}{3} + 2 > 6$	$\frac{m}{3} + 2 > 6$
$\frac{m}{3} + 2 + 2 > 6 + 2$	$\frac{m}{3} + 2 - 2 > 6 - 2$	$\frac{m}{3} \cdot 3 + 2 > 6 \cdot 3$
$\frac{m}{3} > 8$	$\frac{m}{3} > 4$	$\frac{m}{3} + 2 > 18$
$\frac{m}{3} \cdot 8 > 8 \cdot 3$	$\frac{m}{3} \cdot 3 > 4 \cdot 3$	$\frac{m}{3} + 2 - 2 > 18 - 2$
$m > 24$	$m > 12$	$m > 16$

Solve.

7. $8m + 5 \leq 29$

   $m \leq$ _____

8. $2n - 7 > 11$

   $n >$ _____

9. $\frac{x}{4} - 1 > 6$

   $x \geq$ _____

10. $6 \leq 5 + \frac{q}{8}$

    _____ $\leq q$

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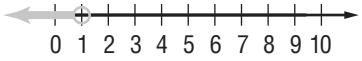
Lesson 5-5

Practice: Skills

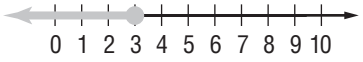
Write an inequality for each graph.

1.

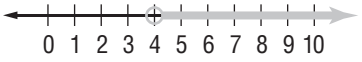
_____

2. 

_____

3. 

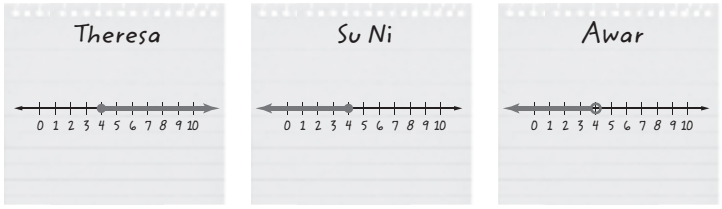
_____

4. 

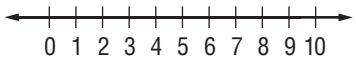
_____

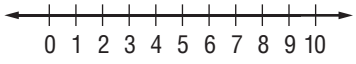
Who is Correct?

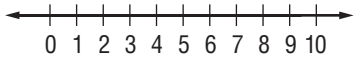
5. Graph the inequality $t \leq 4$. Who is correct? _____

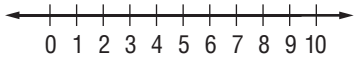


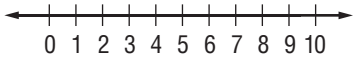
Graph each inequality.

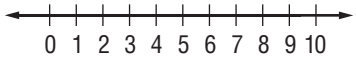
6. $p \geq 9$ 

7. $h > 3$ 

8. $a < 4$ 

9. $y \leq 5$ 

10. $8 < c$ 

11. $7 \geq z$ 

Chapter 5

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