

Cumulative Review (continued)

Chapter 1

Write your answer.

11. Write a rule for the pattern and find the next two numbers in the pattern.

3, 6, 5, 10, 9, _____, _____

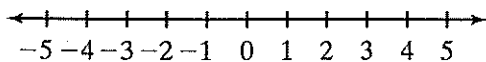
12. There are 12 eggs in a dozen. Write an expression for the number of dozens in e eggs. _____

13. Simplify $7 \cdot 3 - 4 - (3 + 2) - 1$ _____

14. Insert grouping symbols to make the number sentence true.

$$2 \cdot 6 + 5 - 4 \cdot 2 = 14$$

15. Graph $|-4|$, -3 , $|-2|$, 0 and -1 on the number line. Then order the numbers from least to greatest.



16. Evaluate $\frac{h+4}{j}$, for $h = 14$ and $j = 3$. _____

17. Find $|-8| \cdot (-2)$ _____

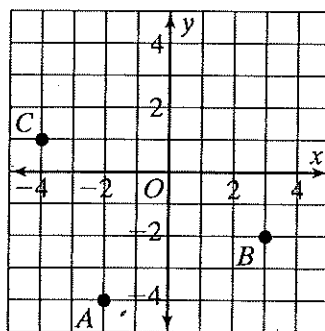
18. Find $-36 \div 3$ _____

19. Write the coordinates of each point.

A _____

B _____

C _____



20. Explain the difference between a numerical expression and a variable expression.

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Cumulative Review

Chapter 2

Circle the letter of the best answer.

- You earn d dollars working 40 hours. Which expression describes how much you earn per hour?
 A. $\frac{40}{d}$ B. $\frac{d}{40}$ C. $40d$ D. $d + 40$
- Which equation shows the commutative property of multiplication?
 F. $5 \cdot 0 = 0$ G. $ab = ba$ H. $3 + 2 = 2 + 3$ J. $(ab)c = a(bc)$
- Kara ran 3 miles a day for 5 days and 4 miles a day for 2 days. Which expression shows the total distance she ran?
 A. $3 + 5 + 4 + 2$ B. $(3 + 4)5 + 2$
 C. $(3 \cdot 5) + (4 \cdot 2)$ D. $7 \cdot 5 + 7 \cdot 2$
- Solve $s + 12 = -8$
 F. 4 G. 20 H. -20 J. -4
- Evaluate $4(a + b)$, for $a = 11$ and $b = 4$.
 A. 32 B. 88 C. 28 D. 60
- Which integer is *not* a solution of $h + 4 < 9$?
 F. 6 G. 2 H. -3 J. -5
- Find $22 + (-8)$.
 A. -30 B. -14 C. 14 D. 30
- Which symbol makes $15 - (-7)$ _____ $-2(11)$ a true statement?
 F. $>$ G. $<$ H. $=$ J. $+$
- Which group is in order from least to greatest?
 A. 6, 3, -3, -6 B. -8, |-8|, 4, 5
 C. |-15|, -10, 5, 10 D. -5, -2, |-2|, 7

Use the distributive property to simplify each expression.

10. $8(106)$ _____

11. $4(98)$ _____

Simplify each expression.

12. $9 - 2x + 9x + 6$ _____

13. $5 - 2(m + 3) - m$ _____

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Cumulative Review (continued)

Chapter 2

Write an expression for the situation. Then simplify.

14. Lisa and John paid 75¢ each to enter the carnival. Lisa bought 8 ride tickets for c cents each. John bought 6 ride tickets for c cents each.

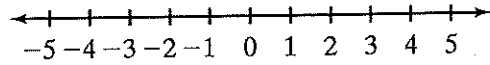
15. Is the equation $5(7 + 2) - 40 = 8$ true, false, or an open sentence?

Solve each equation.

16. $h - 6 = 27$ _____ 17. $16 + m = 36$ _____

18. $\frac{a}{8} = 6$ _____ 19. $-4r = 56$ _____

20. Graph $x > -5$.



Solve each inequality.

21. $19 > y + 7$ _____ 22. $j - 12 < -23$ _____

23. $\frac{x}{11} \leq -4$ _____ 24. $-5h \leq -50$ _____

25. Explain how you can use the commutative and associative properties to add $19 + 28 + 81$ mentally.

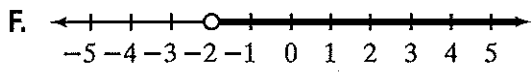
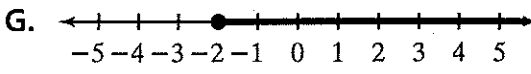
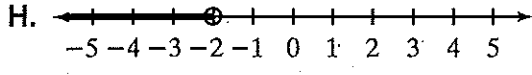
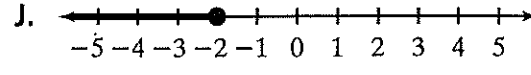
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Cumulative Review

Chapter 7

Circle the letter of the best answer.

- Simplify $5z + 3y - (z + y)$.
 A. $4z + 2y$ B. $4z + 4y$ C. $8z - 2y$ D. $6z + 4y$
- Use the formula $t = \frac{d}{r}$ for $t = 3.5$ h and $r = 60$ mi/h. Find the distance driven, d .
 F. 17 mi G. 180 mi H. 200 mi J. 210 mi
- Find the GCF of $5a^3b^2$ and $15ab^4$.
 A. $5ab$ B. $5ab^2$ C. $15ab^2$ D. $15a^3b^4$
- Teresa is training for a 10,000-meter race. Her goal is to be able to run $6\frac{1}{5}$ miles, which is very close to 10,000 meters. Yesterday she ran $5\frac{7}{10}$ miles. How far is she from her goal?
 F. $\frac{2}{5}$ mi G. $\frac{3}{5}$ mi H. $\frac{1}{2}$ mi J. $1\frac{1}{2}$ mi
- Twenty-one of the 25 members of the Science club had an entry in the science fair. What percent of the club had an entry.
 A. 84% B. 80% C. 21% D. 16%
- Which is the graph of the solution of $-9 > 4x - 1$?
 F.  G. 
 H.  J. 
- Ali's little sister takes 5 steps to cover the same distance that Ali covers in 3 steps. If Ali takes 82 steps walking home from school, how many steps does his sister take?
 A. about 123 steps B. about 75 steps
 C. about 49 steps D. about 137 steps
- A car costs \$29 a day plus \$.25 a mile to rent. The rental company uses the formula $c = 29 + 0.25m$ to find the daily cost c for m miles. Solve the formula for m .
 F. $m = c - 29$ G. $m = \frac{c - 29}{0.25}$ H. $m = 4c + 29$ J. $m = \frac{c}{0.25} - 29$
- Use the formula you found in the previous exercise to find the number of miles driven in a day for a total cost of \$60.25.
 A. about 31 mi B. 212 mi C. 125 mi D. 270 mi
- Which expression is equal to $2\frac{1}{3}$?
 F. $4\frac{1}{b} - 1\frac{5}{b}, b = 6$ G. $\frac{2-a}{a-2.5}, a = 5.5$ H. $3\frac{1}{3} - 1\frac{2}{3}$ J. $\frac{-7}{-3} - \frac{1}{3}$
- Which statement is *not* true?
 A. $\frac{4}{9} > 44\%$ B. $0.25\% < \frac{1}{4}$ C. $150\% = 1.5$ D. $0.375 > 40\%$

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Cumulative Review (continued)

Chapter 7

12. Solve $3y - 9 = 6$.

F. $y = -5$

G. $y = 5$

H. $y = 9$

J. $y = -9$

Solve each equation.

13. $3(x + 7) + 2(x - 5) = x - 5$ $x =$ _____

14. $\frac{2}{3}p + 12 = \frac{1}{3}p + 10$ $p =$ _____

15. $0.2n + 13 = 1.3n - 14.5$ $n =$ _____

16. $\frac{1}{2}(e - 6) = \frac{1}{4}(e + 8)$ $e =$ _____

17. Use $>$, $<$, or $=$ to complete the statement.

$18(4) - (-5) \square -40 + (-3)11.$

18. The rate of interest on a savings account is 7%. What is the simple interest for three years on \$352?

19. a. Parth deposits \$600 into a savings account that earns 4% interest compounded yearly. What is Parth's balance after three years?

b. How much interest did Parth's account earn?

20. Write and solve a word problem to describe $2x - 4 = 8$.

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Cumulative Review

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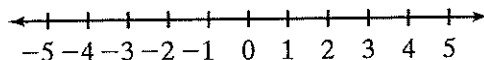
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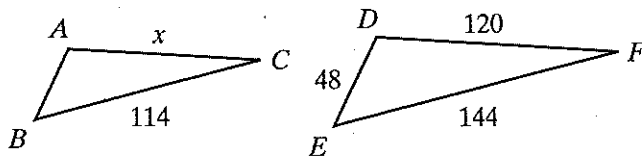
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Cumulative Review

Chapter 6

Circle the letter of the best answer.

- Evaluate $5n + 11$ for $n = -2$.
 A. 21 B. 1 C. 16 D. -1
- -5 is a solution of which equation?
 F. $7x = 35$ G. $\frac{-40}{x} = -8$ H. $x - 3 = -8$ J. $x + 4 = 1$
- Simplify $(-2)^3 \cdot (-6)^0$.
 A. 48 B. -48 C. 8 D. -8
- Solve $-6n = -31.26$.
 F. $n = -37.26$ G. $n = -25.26$ H. $n = -5.21$ J. $n = 5.21$
- Express 6.11×10^5 in standard notation.
 A. 611,000 B. 61,100,000 C. 610,000 D. 61,100
- Solve $-4\frac{1}{6}x = 25$.
 F. $x = -6$ G. $x = 20\frac{5}{6}$ H. $x = 29\frac{1}{6}$ J. $x = -104\frac{1}{6}$
- Which number is less than $-\frac{3}{4}$?
 A. $-\frac{3}{5}$ B. $-\frac{2}{3}$ C. -0.74 D. $-\frac{7}{9}$
- Write 360 mi in 8 h as a unit rate.
 F. 45 mi/h G. 50 mi/h H. 55 mi/h J. 90 mi/h
- What percent of 50 is 20.7?
 A. 50% B. 24.2% C. 41.4% D. 20.7%
- Find 70% of 60.
 F. 420 G. 4.2 H. 42 J. 1.17
- Which has the lowest unit price?
 A. \$9.52 for 8 gal B. \$12.84 for 12 gal
 C. 11 gal for \$11.99 D. 9 gal for \$10.08
- The figures below are similar.



Write a proportion. Then solve for x .

$x =$ _____

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Cumulative Review (continued)

Chapter 6

13. Find the sale price of an item with a regular price of \$29.99 marked 30% off.
- _____

Write each number as a percent. Round to the nearest tenth of a percent where necessary.

14. 0.039 _____ 15. $\frac{14}{25}$ _____ 16. $\frac{8}{33}$ _____

Find each probability for one spin of a spinner numbered 1 to 9.

17. $P(1 \text{ or } 2)$ _____ 18. $P(\text{less than } 7)$ _____

The scale on a map is 1 in. : 8 mi. Find the actual distance for each map distance.

19. 4.5 in. _____ 20. 10.75 in. _____

Solve each proportion. Where necessary, round to the nearest tenth.

- ✓ 21. $\frac{6}{10} = \frac{9}{x}$ $x =$ _____ ✓ 22. $\frac{n}{14} = \frac{5}{3}$ $n =$ _____

Write each ratio as a fraction in simplest form.

23. 24 : 56 _____ 24. 40 : 75 _____

25. Explain how to find selling price given cost and markup.

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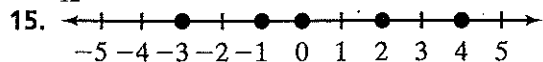
Chapter 1 Answers

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Cumulative Review

1. C 2. G 3. A 4. H 5. D 6. G 7. D
 8. F 9. C 10. G 11. 18, 17, Start with 3,
 alternately multiply by 2 and subtract 1.

12. $\frac{6}{12}$ 13. 11 14. $2 \cdot (6 + 5) - 4 \cdot 2 = 14$



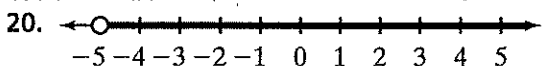
- 3, -1, 0, |-2|, |-4| 16. 6 17. -16 18. -12
 19. (-2, -4), (3, -2), (-4, 1) 20. A numerical
 expression uses numerals and operation symbols.
 A variable expression uses these and variables.

Chapter 2 Cumulative Review

1. B 2. G 3. C 4. H 5. D 6. F 7. C
 8. F 9. D 10. $= 8(100 + 6) = 800 + 48$
 $= 848$ 11. $= 4(100 - 2) = 400 - 8 = 392$

12. $7x + 15$ 13. $-3m - 1$
 14. $75 + 75 + 8c + 6c = 14c + 150$ 15. false

16. $h = 33$ 17. $m = 20$ 18. $a = 48$
 19. $r = -14$



21. $y < 12$ 22. $j < -11$ 23. $x \leq -44$
 24. $h \geq 10$ 25. $19 + 28 + 81$
 $= 19 + (81 + 28)$ by the commutative property;
 $= (19 + 81) + 28$ by the associative property;
 $= 100 + 28 = 128$

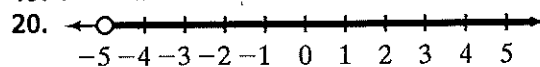
Chapter 7 Cumulative Review

1. A 2. J 3. B 4. H 5. A 6. H 7. D
 8. G 9. C 10. F 11. D 12. G 13. -4
 14. -6 15. 25 16. 20 17. $>$ 18. \$73.92
 19.a. \$674.92 b. \$74.92 20. Sample answer is
 shown: Olga earns \$2 each day she delivers news-
 papers, but she pays her mother \$4 a week for gas.
 How many days does she deliver newspapers to
 clear \$8? $x = 6$; 6 days

Chapter 2 Cumulative Review

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 8. F 9. D 10. $= 8(100 + 6) = 800 + 48$
 $= 848$ 11. $= 4(100 - 2) = 400 - 8 = 392$
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 24. $h \geq 10$ 25. $19 + 28 + 81$
 $= 19 + (81 + 28)$ by the commutative property;
 $= (19 + 81) + 28$ by the associative property;
 $= 100 + 28 = 128$

Chapter 6 Answers

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Cumulative Review

1. B 2. H 3. D 4. J 5. A 6. F 7. D
 8. F 9. C 10. H 11. B 12. $\frac{x}{120} = \frac{114}{144}$,
 $x = 95$ 13. \$20.99 14. 3.9% 15. 56%
 16. 24.2% 17. $\frac{2}{9}$ 18. $\frac{2}{3}$ 19. 36 mi 20. 86 mi
 21. 15 22. 23.3 23. $\frac{3}{7}$ 24. $\frac{8}{15}$ 25. Sample
 answer: Multiply the percent of markup in decimal
 form by the cost. Add the result to the cost.