Packet #1
Spiral Review and Test Prep
Chapters 1–10

Choose the correct answer.

Number Sense

1. Compare.
   20.963 ▢ 20.0963
   A. <
   B. =
   C. >
   D. +

2. By how much is the value of 39,285 decreased if the 9 is changed to a 6?
   F. 3
   G. 30
   H. 3,000
   J. 6,000

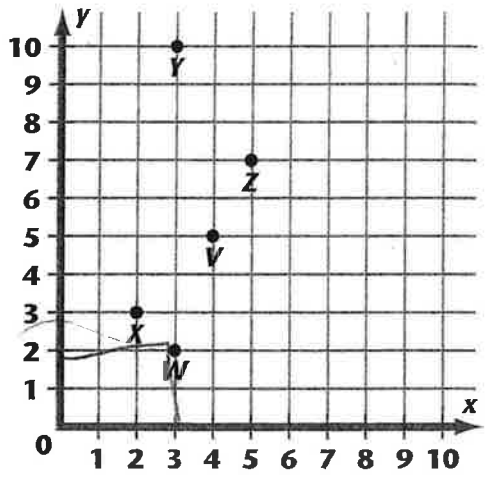
3. Complete.
   $\frac{1}{4} = \frac{\square}{20}$
   A. 4
   B. 5
   C. 12
   D. 20

4. Write these fractions using the least common denominator. $\frac{1}{4}, \frac{5}{6}$
   F. $\frac{2}{6}, \frac{5}{6}$
   G. $\frac{5}{4}, \frac{6}{4}$
   H. $\frac{3}{12}, \frac{10}{12}$
   J. Not Here

Algebra and Functions

5. What is the value of s if $s - 10 = 14$?
   A. 4
   B. 16
   C. 20
   D. 24

6. Name the point for (3, 2).



   F. W
   G. X
   H. Z
   J. Y

7. What is the value of t if $3t - 7 = 5$?
   A. $\frac{2}{3}$
   B. $\frac{3}{2}$
   C. 4
   D. 12

8. Kathy needs $60.49 to buy a skateboard. She has $23.00. If m represents how much more money she needs, which equation could you use to find the correct value of m?
   F. $23 + m = 60.49$
   G. $m + 60.49 = 23$
   H. $23 - m = 60.49$
   J. $60.49 + 23 = m$

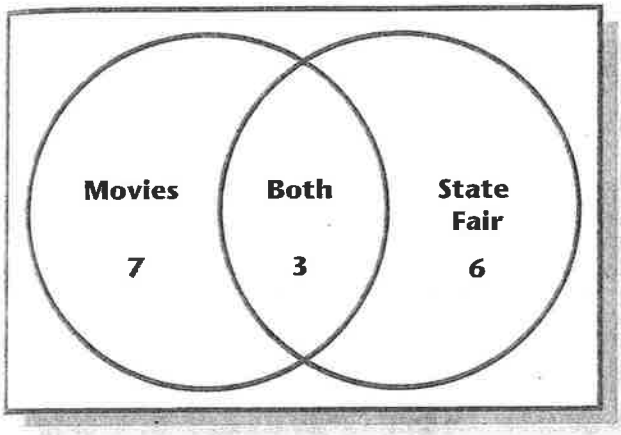
Statistics, Data Analysis, and Probability

9. What is the range of the following numbers?

3, 17, 6, 19, 2, 21, 5, 17

A. 19 C. 16
B. 17 D. 2

10. How many students went to the movies and to the state fair?



F. 10 H. 7
G. 9 J. 3

11. What is the mode of the following numbers?

3, 7, 8, 3, 9, 10, 3, 8, 7, 11, 3, 7, 8, 12

A. 3 C. 8
B. 7 D. Not Here

12. Tanya's times in her last 3 races are 7.1 minutes, 8.2 minutes, and 7.8 minutes. What is her mean time for the 3 races?

F. 7.1 minutes H. 7.7 minutes
G. 7.175 minutes J. 7.8 minutes

Mathematical Reasoning

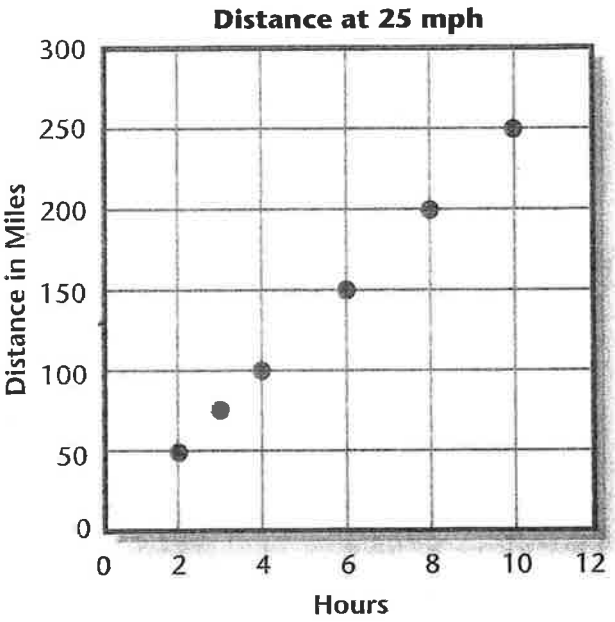
13. Garrett has saved \$125 to go to soccer camp. He will save \$12 more each week. How much will he have saved at the end of 8 weeks?

A. \$221 C. \$333
B. \$296 D. Not Here

14. Lena worked 20 hours last week. She makes \$6 an hour. If x represents how much money she earned last week, which equation represents how much she earned?

F. $20 \times x = 6$ H. $\frac{6}{x} = 20$
G. $20 \times 6 = x$ J. $6 + x = 20$

15. Use the graph to find the approximate distance traveled in 9 hours.



A. 20 miles C. 225 miles
B. 90 miles D. 250 miles

16. Sophia has 2 measuring cups: 1 cup and $\frac{3}{4}$ cup. How can she measure exactly $\frac{1}{4}$ cup of water using the measuring cups she has? Explain.

Extra Practice

Add Integers (pages 398–403)

1. $4 + {}^{-}5$
2. ${}^{-}3 + 2$
3. $6 + 3$
4. ${}^{-}5 + {}^{-}7$
5. $14 + {}^{-}6$
6. ${}^{-}9 + 9$
7. $0 + {}^{-}5$
8. ${}^{-}9 + 11$
9. $4 + {}^{-}3$
10. ${}^{-}7 + 0$
11. ${}^{-}3 + {}^{-}2$
12. ${}^{-}3 + 5$
13. ${}^{-}1 + 1$
14. ${}^{-}2 + 1$
15. ${}^{-}2 + {}^{-}2 + {}^{-}2$
16. ${}^{-}4 + 3 + 2$
17. $2 + 0 + {}^{-}1$
18. $4 + 3 + {}^{-}3$
19. ${}^{-}1 + {}^{-}3 + {}^{-}2$
20. $3 + {}^{-}1 + 2 +$

Solve.

21. The total height of an iceberg is 345 feet. The lower 150 feet of the iceberg are submerged below sea level. How many feet of the iceberg rise above sea level?

22. Without solving the problem, how would you know if the sum of ${}^{-}3$ and ${}^{-}2$ is a positive or negative number? Explain.

23. Suppose a research scientist collects samples from a cave 12 feet below the surface. Then she climbs up 6 feet to collect more samples. How many feet below the surface will she be?

Problem Solving: Reading for Math Check the Reasonableness of an Answer (pages 404–405)

Solve.

1. At 12 noon the temperature of a water sample is 7°F. The next morning the temperature of the sample is 10°F lower. A lab worker records the temperature as 3°F. Is this calculation reasonable?

2. At 6 A.M. the temperature of a liquid sample is ${}^{-}2$°F. By 12 noon, the temperature of the sample rises 4°F. The record shows the temperature as 2°F. Is this record reasonable?

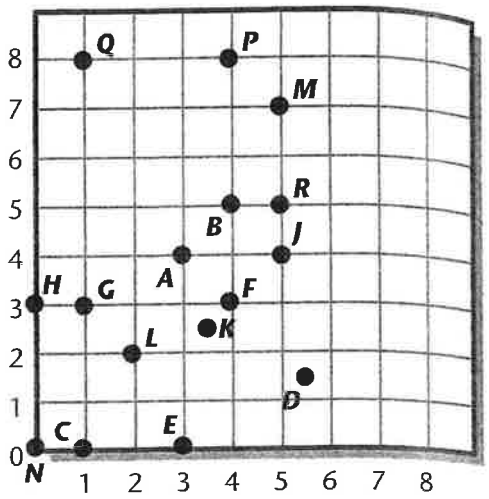
3. Mr. Fargus hears on the radio that it is 30°C outside. He puts on a heavy coat and walks to work. Is his action reasonable? Explain.

Practice

Write the coordinates for each point.

11. A 12. C 13. F 14. H 15. J

16. N 17. R 18. M 19. P 20. Q



Name the point for the ordered pair.

21. (3, 0) 22. (4, 5) 23. (1, 3)

24. (2, 2) ★25. (3.5, 2.5) ★26. (5.5, 1.5)

Complete the table then graph the function.

27. $d = 4t$

t	d
0	0
1	4
2	
3	

28. $a = b + 4$

b	a
0	4
1	5
2	
3	

29. $s = 3v - 2$

v	s
1	1
2	
3	7
4	

30. $y = 2x + 3$

x	y
0	
1	
2	7
3	

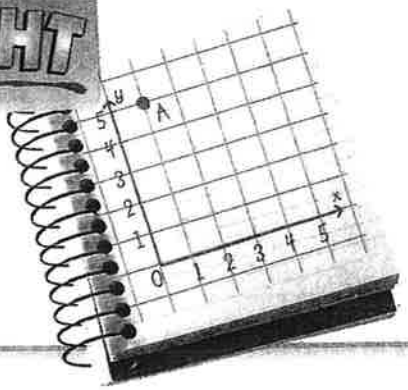
31. $c = 5w$

w	c
0	
1	5
2	
3	

32. $f = 4g + {}^{-}3$

f	g
1	1
2	5
3	
4	

33. **Make it RIGHT**



Here is how Ben plotted the ordered pair (5, 1) as point A. Tell what he mistake he made. Explain how to correct it.