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CHAPTER Proportional Relationshi	ips
⁴ Multiple Choice: Test	
Choose the best answer.	7. Find an equivalent ratio.
 Choose the best answer. 1. Julie's car can travel 512 miles on 16 gallons of gasoline. What is the number of miles per gallon? A 30 B 32 2. The cost of 50 pounds of pet food is \$117.50. What is the cost for one pound of pet food? A \$23 B \$0.43 C \$2.35 3. 16 oz of trail mix costs \$3.20. What is the cost per ounce? 	7. Find an equivalent ratio. $ \frac{3}{10} $ A $\frac{1}{3}$ B $\frac{9}{30}$ 8. Find an equivalent ratio. $ \frac{8}{6} $ A $\frac{4}{3}$ B $\frac{10}{8}$
A $$0.02$ B $$0.16$ C $$0.20$ 4. Miho drove 270 miles in 4.5 hours. What is her average rate of speed? A 45 mph B 50 mph C 60 mph 5. Find an equivalent ratio. 3:10 A 1 to 3 B 9 to 30 C 6:13 6. Find an equivalent ratio. 8:6 A 4 to 3	9. Solve for <i>y</i> . $\frac{32}{8} = \frac{4}{y}$ A 4 B 1 C 16 10. Mathew ran 3 miles in 15 minutes at a constant speed. How long will it take him to run 12 miles at the same speed? A 30 minutes B 60 minutes C 45 minutes 11. Solve for <i>x</i> .
B 2:1 C 16 to 9	$\frac{24}{3} = \frac{x}{2}$ A 16 B 36

CHAPTER Proportional Relationships 4

Multiple Choice: Test, continued

- 12. Terry drove 366 miles in 6 hours at a constant speed. How long would it take him to drive 427 miles at the same speed?
 - A 3 hours
 - B 6.5 hours
 - C 7 hours
- 13. Which set of side lengths for triangles is similar to the triangle shown below?



- A 8, 8, 8
- B 4, 8, 10
- C 5, 5, 9
- 14. A telephone pole is 60 feet tall. It casts a shadow that is 24 feet long. A tree that is next to the telephone pole is 15 feet tall. How long is the shadow of the tree?
 - A 4 feet
 - B 6 feet
 - C 15 feet

15. The two triangles are similar. Find x.

$$9$$
 3 3 x
A $x = 1$ B $x = 27$

- 16. A building with a height of 40 m casts a shadow that is 30 m long. A statue next to the building casts a shadow that is 6 m long. How tall is the statue?
 - A 8 m
 - B 5m
 - C 2 m
- 17. On a scale drawing with a scale factor

of $\frac{1}{50}$, the height of a building is

6 inches. How tall is the actual building?

- A 25 feet
 - B 300 feet
- 18. On a scale drawing with a scale of 1 in:5 ft, a tree is 5 in. tall. How tall is the actual tree?
 - A 25 in.
 - B 10 ft
 - C 25 ft

Chapter 4 Section A Quiz

- 1. B
- 2. C
- 3. C
- 4. C
- 5. A
- 6. C

Chapter 4 Section B Quiz

- 1. B
- 2. A
- 3. A
- 4. B
- 5. C

Chapter 4 Multiple Choice Test

- 1. B
- 2. C
- 3. C
- 4. C
- 5. B
- 6. A
- 7. B
- 8. A
- 9. B
- 10. B
- 11. A
- 12. C
- 13. A
- 14. B
- 15. A
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 - 17. A
 - 18. C

CHAPTER 5

- 5-1 Practice
- 2. III
- 3. IV



5-8.



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Time