

Name _____ Period _____ Date _____

CHAPTER 6 PRACTICE TEST

Solve for the variable.

1. $3x = 12$

2. $7a = 42$

3. $8g = 32$

4. $\frac{x}{3} = \frac{5}{15}$

5. $\frac{10}{b} = \frac{20}{8}$

6. $\frac{2}{3} = \frac{10}{w}$

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

8. $35 = 7k$

9. $80 = 20x$

Use the following to solve problems 10-13.

For every 9 fish you have, you need 3 gallons of water.

10. How many fish can you have if you have a tank that holds 21 gallons?

11. How many gallons of water do you have for 1 fish?

12. If you want 18 fish, how many gallons of water do you need?

Use the following to solve problems 14-16.

15 cars enter a parking lot every 5 minutes.

14.

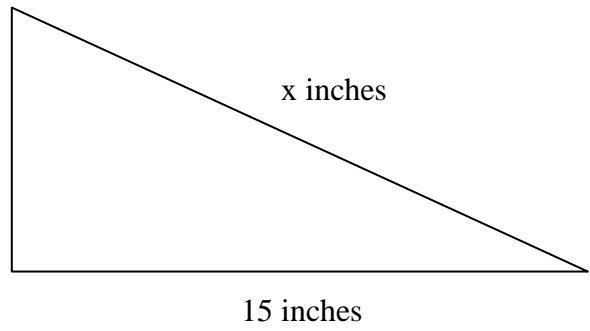
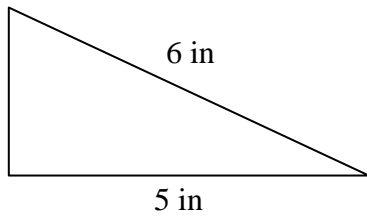
Cars	Minutes
	6
15	5
	4
	3
	2
	1

15. How many cars enter the parking lot in 3 minutes?

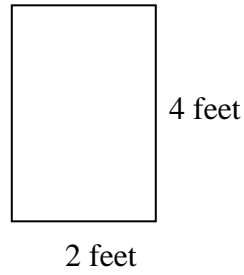
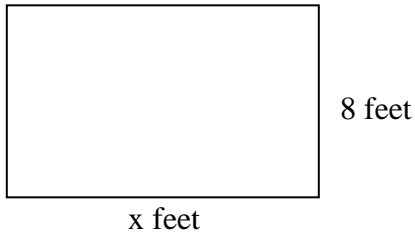
16. How long does it take for 9 cars to enter the parking lot?

For problems 17-20, set up the proportion for each set of similar figures and solve for the missing side length.

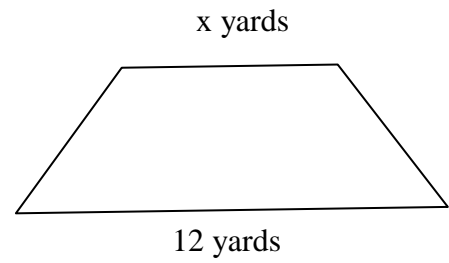
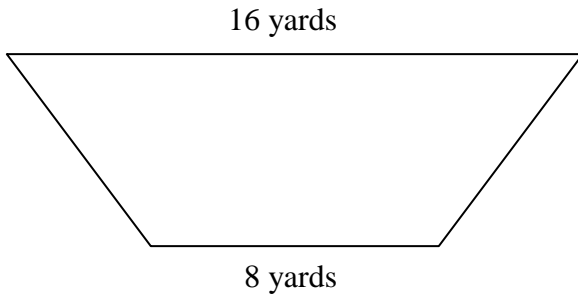
17.



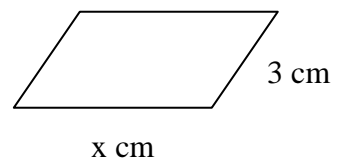
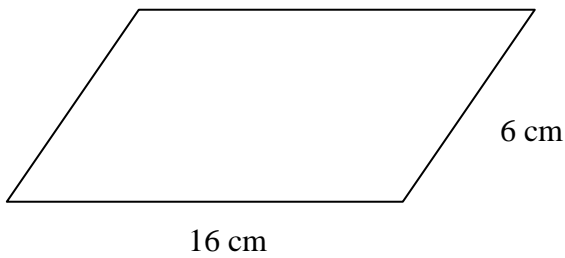
18.



19.



20.



Name ANSWER KEY Period _____ Date _____

CHAPTER 6 PRACTICE TEST

Solve for the variable.

1. $3x = 12$
4

2. $7a = 42$
6

3. $8g = 32$
4

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

5. $\frac{10}{b} = \frac{20}{8}$
4

6. $\frac{2}{3} = \frac{10}{w}$
15

7. $\frac{1}{3} = \frac{7}{y}$
21

8. $35 = 7k$
5

9. $80 = 20x$
4

Use the following to solve problems 10-13.

For every 9 fish you have, you need 3 gallons of water.

10. How many fish can you have if you have a tank that holds 21 gallons? **73 fish**

11. How many gallons of water do you have for 1 fish? **1/3 gallon**

12. If you want 18 fish, how many gallons of water do you need? **6 gallons**

Use the following to solve problems 14-16.

15 cars enter a parking lot every 5 minutes.

14.

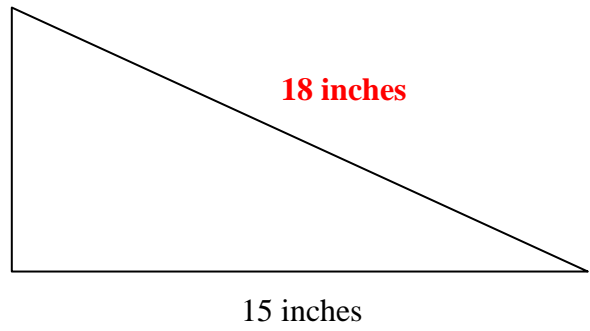
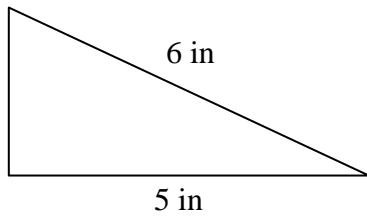
Cars	Minutes
18	6
15	5
12	4
9	3
6	2
3	1

18. How many cars enter the parking lot in 3 minutes? **9 cars**

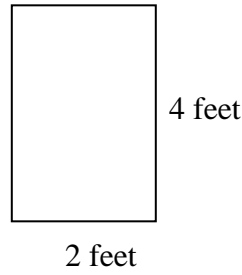
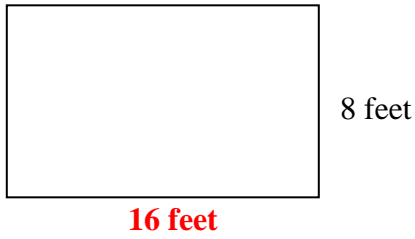
19. How long does it take for 9 cars to enter the parking lot? **3 minutes**

For problems 17-20, set up the proportion for each set of similar figures and solve for the missing side length.

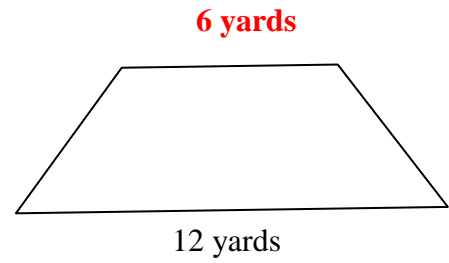
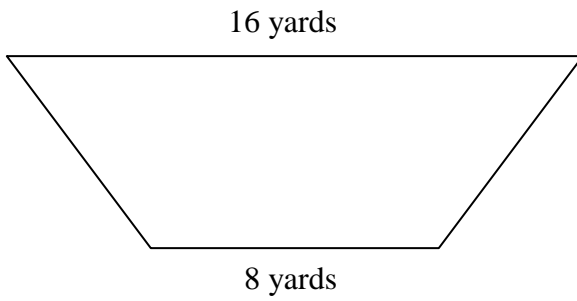
20.



18.



19.



20.

