

**guided
practice**

NAME _____

Module 16 Solving Rational Equations
Lesson 2 Solving Problems Using Direct Variation

Set 1

1. Does y vary directly as x ?

x	y
3	12
-2	-8
5	20

2. Determine the constant of direct variation.

x	y
3	12
-2	-8
5	20

3. Write an equation for the direct variation.

x	y
3	12
-2	-8
5	20

4. Is this function a direct variation?

x	y
15	9
-10	-6
-16	-12

Set 2

1. y varies directly as x .
 y is -5 when x is 15.
 Find y when x is 24.

2. On a scale drawing, a sidewalk 90 meters long is represented by a line segment six centimeters long. Find the length of a sidewalk represented by a line segment eight centimeters long.

3. The electrical resistance of a wire varies directly as the wire's length. If a wire 220 cm long has resistance of 15 ohms, what length wire x has a resistance of 18 ohms?

© 2003 BestQuest



