

Name: _____

Key

1.1, 1.2, 1.5 Quiz Review

1) Which represents *For every hour that Samuel works, he earns \$8.50?*

A $f(h) = 8.5h$

B $f(h) = 8.5 + h$

C $f(h) = 8.5 - h$

D $f(h) = h \div 8.5$

E $f(h) = 8.5h \div 60$

2) A record store sells CDs in excellent condition for \$3.50 and in fair condition for \$0.75. Write an expression for the cost of buying x excellent-condition CDs and f fair-condition CDs.

$$3.50x + 0.75f$$

3) Write an expression: Three fifths the cube of a number.

$$\frac{3}{5}n^3$$

4) Write a verbal expression for $\frac{5}{(m+2)}$

The quotient of five and the quantity of a number m increased by two.

5) Write an expression: Fifteen decreased by twice a number.

$$15 - 2n$$

6) Simplify: $2[(9-8)^2 + (12-5)^2]$

$$2[(1)^2 + (7)^2]$$

$$2[1 + 49]$$

$$2[50]$$

$$100$$

7) Write a verbal expression for $4d^3 - 10$

Four times a number d cubed minus ten.

8) Simplify: $\frac{3}{5}(4 \cdot 10) - 6$

$$\frac{3}{5}(40) - 6$$

$$3(8) - 6$$

$$24 - 6$$

$$18$$

9) Write a verbal expression for $5m + 2$

The product of five and a number m plus two.

10) Simplify: $|-49 - 8| \div [0.5 \cdot 12 + 5]$

$$|-77| \div [6 + 5]$$

$$|-77| \div [11]$$

$$77 \div 11$$

$$7$$