

Beat the Basics 11

Date _____ Algebra _____

Evaluate each using the values given.

1) $h(j - h^2) - h \div 2$; use $h = 2$, and $j = -3$

2) $(6 \div 6)^2 + m - (m - n)$; use $m = 3$, and $n = 4$

Solve each equation.

3) $-1 + 3x = 17$

4) $-1 = \frac{v + 6}{4}$

5) $-27 + 8b = -3(-3b + 7)$

6) $-\frac{3}{2} = -\frac{7}{2} - \frac{5}{3}m$

Solve each of the following word problems by any method. Show all of your work. Answer each question in a full sentence.

7) Half of your baseball card collection got wet and was ruined. You bought 10 cards to replace some that were lost. How many did you begin with if you now have 23?

8) Alberto bought ten posters. A week later half of all his posters were destroyed in a fire. There are now only 13 posters left. With how many did he start?

Evaluate each expression.

9) $-1 - \frac{2}{3}$

10) $-\frac{5}{3} - \frac{7}{4}$

$$11) -\frac{3}{2} \cdot -\frac{1}{2}$$

$$12) \frac{-2}{3} \div \frac{7}{6}$$

Solve each problem. Round to the nearest whole number.

13) What percent of 105 is 98.7?

14) 135 is 86% of what?

Find the selling price of each item.

15) Original price of a parrot: \$260.00
Discount: 10%
Tax: 2%

16) Original price of a computer: \$1,000.00
Discount: 20%
Tax: 3%

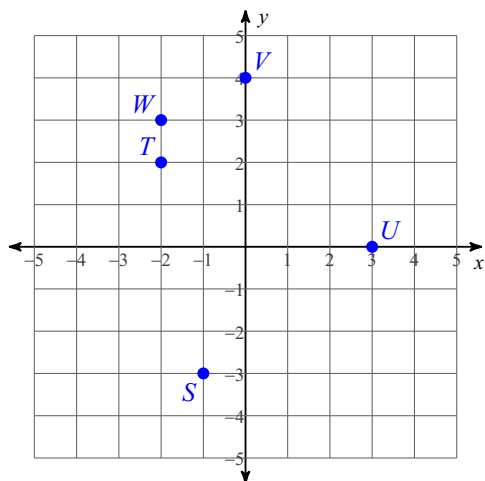
Round each to the place indicated.

17) 3.975723; thousandths

18) 1.2975; tenths

Clearly label each point with its coordinates.

19)



Answer each question and round your answer to the nearest whole number.

20) A map has a scale of 2 in : 9 mi. If Kumba and Clinton are 6 in apart on the map, then how far apart are the real cities?