

A4 A5 Proportions

Note title

10/04/2015

Proportions: show at least 2 equivalent rates.

ex: $\frac{\$18}{2 \text{ tanktops}} \times 5 = \frac{\$90}{10 \text{ tanktops}} = \frac{\$153}{17 \text{ tanktops}}$ → Find unit Rate
 $\frac{\$9}{1 \text{ tanktop}}$ $153 \div 9 = 17$

Examples:

1. Set up a proportion to solve:

(a) twelve muffins cost \$4.99, what do 36 muffins cost?

$$\frac{\$4.99}{12 \text{ muffins}} \times 3 = \frac{\$14.97}{36 \text{ muffins}}$$

(b) six apples cost \$3.79, what does 15 apples cost?

$$\frac{\$3.79}{6 \text{ apples}} \div 6 = \frac{\$0.63}{1 \text{ apple}} \times 15 = \frac{\$9.45}{15 \text{ apples}}$$

leave a spot. Find unit Rate.

(c) 30cm of snow fell in 6 hours. If it keeps falling at the same rate, how long until there is 45cm?

$$\frac{30 \text{ cm}}{6 \text{ hours}} \div 30 = \frac{1 \text{ cm}}{0.2 \text{ h}} \times 45 = \frac{45 \text{ cm}}{9 \text{ hours}}$$

OR

$$\frac{30 \text{ cm}}{6 \text{ hours}} \div 6 = \frac{5 \text{ cm}}{1 \text{ hour}} \times 9 = \frac{45 \text{ cm}}{9 \text{ hours}}$$

2.3 WB 2.3 text