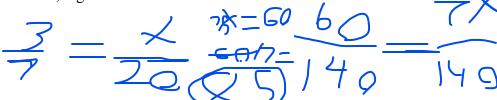**Assignment: Use proportions to find the missing value**

1) 8 inches in 25 minutes ; 28 inches in x minutes

$$87.5$$

2) 3 gallons in 7 hours ; x gallons in 20 hours

$$\frac{3}{7} = \frac{x}{20} \quad 3x = 60 \quad \frac{60}{140} = \frac{7x}{140}$$
$$8.57 = 8.5$$

3) Jane ran 100 meters in 15 seconds. How long did she take to run 2 meter?

$$15/100 = .15 \times 2 \quad 0.30 \text{ S} \qquad [HOW]$$

4) A car travels 125 miles in 3 hours. How far would it travel in 5 hours?

$$208.333$$

5) Arthur is typing a paper that is 390 words long. He can type 30 words in a minute. How long will it take for him to type the paper?

$$390/30 \qquad 13 \text{ min}$$

6) The recipe for mint chocolate ice cream require $2\frac{1}{4}$ cups of cream for 5 people. How many cups would be required for 8 people?

$$3.6 \qquad 2\frac{1}{4}/5 = 0.45 \times 8 = 3.6$$

7) Justin is making snowballs to build a fort during his winter break. He can build 15 snowballs in an hour but 2 snowballs melt every 15 minutes. How long will it take to make 210 snowballs?

$$16.1 \text{ h}$$

8) The grocery store parking lot would hold 1000 vehicles. $2/5$ of the parking spaces were for cars. There were 200 cars parked and some trucks in the parking lot. . $3/4$ of the parking lot was full. How many trucks were in it?

300 ?

9) John ate $4/7$ of his birthday cake. His friend ate $1/2$ of what was left. What fraction was the cake remaining?

4/7 - 7/7 = 3/7/2 =

1.5/7

10) When the birthday cake was about to be served, you were told you could have 0.6, 60%, $3/5$, 6% . Which 3 will give you the same portion?

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