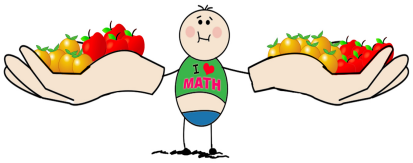
Math Humor

Q. If you had 4 apples and 5 oranges in one hand and 6 apples and 7 oranges in the other, what would you have?



A. Very large hands.

Agenda:

1) Bell Ringer: page 111, turn in PS #

2) Go over HW with 6:00 buddy

3) Review: pages

4) Homework: pgs 176-177

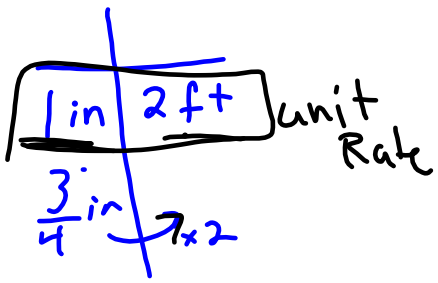
Quiz- Tomorrow

Sep 7-12:49 PM

Review: Ratios, Proportions

1) A model of a car was made using a scale of 2 ft = 1 in. If the model has a tire whose diameter measures $\frac{3}{4}$ in, what is the actual tire diameter?

$\frac{3}{4} \times \frac{2}{1} = \frac{6}{4} = 1\frac{1}{2}$



Oct 13-8:25 AM

2) A cookie recipe uses 1 $\frac{1}{2}$ cups of sugar to make 4 dozen cookies. Marge wants to make 6 dozen cookies. How much sugar does she need?

Sugar	cookies
$1\frac{1}{2}$	4
$2\frac{1}{4}$	6

Step 1
unit Rate
$4 \div 1\frac{1}{2}$
$4 \div \frac{3}{2}$
$4 \times \frac{2}{3} = \frac{8}{3}$

Step 2
Divide
$6 \div \frac{8}{3}$
$3\,\cancel{6} \times \frac{3}{\cancel{8}_4} = \frac{9}{4} = 2\frac{1}{4}$

Oct 13-8:25 AM

3) Samantha can type 356 words in 3 minutes. How many words can she type in 7 minutes?

min	words
3	356
7	$830\frac{2}{3}$

$\times 118\frac{2}{3}$

1 $118\frac{2}{3}$

unit Rate
words per minute

$3\overline{)356}$ $\quad 118\frac{2}{3}$
3
5
3
26
24
2

Step 2
multiply

$\overset{1}{\overset{5}{1}}18 \times 7 = 826$

$7 \times \frac{2}{3} = \frac{14}{3} = 4\frac{2}{3}$

$826\,4\frac{2}{3} = 830\frac{2}{3}$

Oct 13-8:25 AM

4) What is the unit price for a 17 ounce package of spaghetti that costs $4.12?

17
34
51
68
85

$$17\overline{)4.12} \quad .242$$

-34

72

-68

40

-34

6

cost per ounce

*.24/ounce

Oct 13-8:25 AM

5) A box of 40 pencils from Hummel's Office Supply costs $6.80, while a box of 50 pencils from Staples costs $9.00. Which box of pencils is the better value and by how much?

Hummels

$$40\overline{)6.80} \quad .17$$

-40

280

-280

0

Staples

$$50\overline{)9.00} \quad .18$$

-50

400

-400

0

Oct 13-8:25 AM

6) What is the unit price to the nearest cent of a 33-ounce bottle of juice that sells for $2.99?

$$33\overline{)2.99} \quad .090$$

299

297

20

$.09 / ounce

Oct 13-8:26 AM

7) Mike worked 7 hours on Monday, 6 hours on Tuesday, 8 hours on Thursday, and 7.5 hours on Friday. His paycheck for the week was $242.25. What was Mike's hourly rate of pay?

$$\begin{array}{r} 7.0 \\ +\ 6.0 \\ +\ 8.0 \\ +\ 7.5 \\ \hline 28.5 \text{ hrs.} \end{array}$$

$$28.5\overline{)242.25}$$

Oct 13-8:26 AM

8) At Walmart this week Poland Spring water was selling for $5.99 for a 12 pack of 23.7 fl. oz. bottles. Dasani water was selling for $4.99 for a 12 pack of 16.9 fl. oz. bottles. Which brand was the better buy and by how much?

23.7×12 16.9×12

Oct 13-8:26 AM

8) Solve the proportion: $\frac{\frac{1}{3}}{7} = \frac{\frac{5}{6}}{x}$

Oct 13-8:26 AM

1. Divide $\frac{3}{4} \div \frac{2}{3}$

2. Fill in the following table relating marigolds to roses in the garden.

Marigolds	Roses	Total
5	2	7
20	8	28
30	12	42
20	8	28

Oct 3-8:08 AM

3. A shoe salesperson sells a pair of shoes for $60. The sales person receives a 1/8 commission on the sale. How much is the commission?

$60 \times \frac{1}{8} = \$7.50$

4. In 2000, the population of Wisconsin was about 1/50 of the population of the entire United States. The population of the United States in 2000 was about 281,422,000 people. What was Wisconsin's population in 2000?

$\frac{1}{50} \times 281,422,000 = 5,628,440$ people

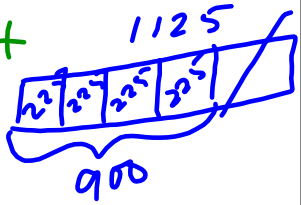
Oct 3-8:08 AM

5. Appliances at Discount City Store are on sale for ¾ of the original price. Ellen has a coupon for a 1/5 discount on the sale price. If the original price of an oven is $1500, how much will Ellen pay for the oven before tax?

Step 1: $\frac{3}{4} \times 1500 = 1125$

Step 2: $\frac{1}{5} \times 1125 = 225$ discount

$1125 - 225 = \$900$



$1 - \frac{1}{5} = \frac{4}{5}$ $1125 \times \frac{4}{5} = 900$

Oct 3-8:08 AM

8. Complete the table below and write an equation for the relationship.

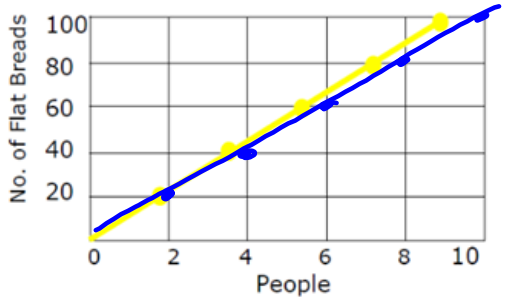
X	Y
½	1 3/4
4	14
6	21
7½	26 1/4

$1\ 3/4 \div 1/2 = 3\ 1/2$

Oct 3-8:09 AM

7. For the following problems find the constant of proportionality and write an equation.

1. The graph below represents the number of people eating flatbread. What is the constant of proportionality? 10



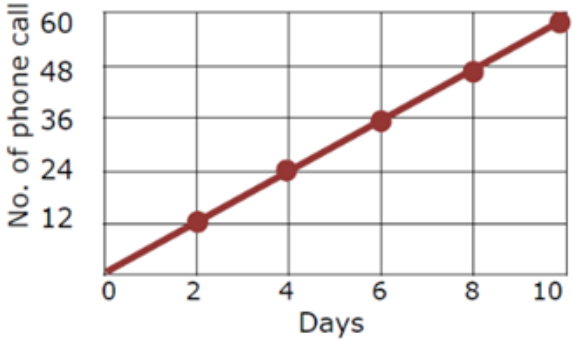
x	y
2	20
4	40
6	60
8	80
10	100

$y = 10x$

Oct 3-8:09 AM

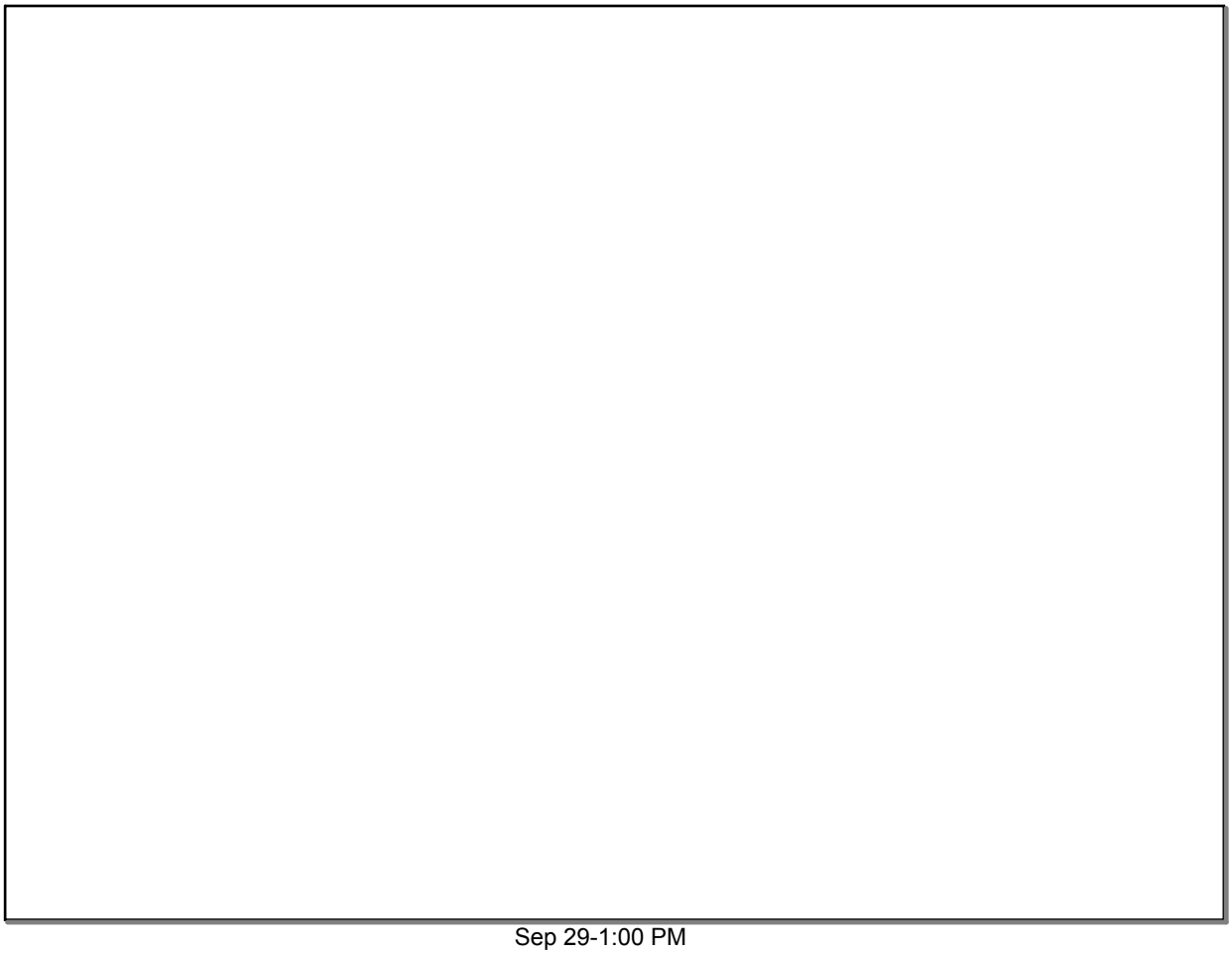
2. The graph below represents the number of phone calls made over a number of days. What is the constant of proportionality? 6

$y = 6x$



2	12
4	24
6	36
8	48
10	60

Oct 3-8:09 AM



Sep 29-1:00 PM