

Accelerated Math

Note: The steeper the line, the faster the rate of change. The rate of change in mathematics is known as the slope of the line. (rise over run)

p 228

Unit rate

$$a) \frac{36 \text{ t-shirts}}{3 \text{ box}} = 12 \text{ t-shirts per box}$$

$$\frac{60 \text{ t-shirts}}{6} = 10 \text{ t-shirts per box}$$

b)

unit rate is same

$$\frac{\cancel{42}^6}{\cancel{7}_1} = \frac{\cancel{54}^6}{\cancel{9}_1} = \frac{6}{1} \quad 6 \text{ flowers per vase}$$

page 231 1-5

Unit Rate

$$\frac{1}{2} = \frac{.5}{1.0}$$

$$\textcircled{1} \quad \frac{\$3}{6} = \frac{.50}{6 \overline{) 3.00}}$$

$$\begin{array}{r} .50 \\ 6 \overline{) 3.00} \\ \underline{30} \\ 0 \end{array}$$

$$\frac{1}{2} = \frac{2}{112}$$

50¢/bagel

$$\frac{\$9}{24} = 24 \overline{) \$1800}$$

$$\begin{array}{r} .375 \\ 24 \overline{) 1800} \\ \underline{72} \\ 180 \\ \underline{168} \\ 120 \\ \underline{120} \\ 0 \end{array}$$

$$\frac{24}{5} = \frac{324}{192}$$

$$\frac{24}{168}$$

38¢/bagel

$$\frac{120}{120} = 0$$

September 16, 2014

Class Opener

- What are the elements of culture?
- What are the characteristics of your society's culture?

Read page 82-89

Do Vocabulary in your note book

#6) How do local and national differences affect culture on a regional or global level?

6

September 16, 2014

10 biscuits }
1 cup } 20 biscuits } 30 biscuits
2 cups } 3 cups

#1

Cost
hrs

30	15	75
2	1	5

$$1 \text{ hr} = 60 \text{ min}$$

$$15 \text{ m} = 4 \text{ parts in a hr}$$

block	2	4	8
min	15	60	60

9 #20

Flipside		Unit Rate	
$\frac{900}{60}$	Adult	$\frac{450}{30}$	$\frac{15}{1}$
$\frac{600}{60}$	Child	$\frac{150}{15}$	$\frac{10}{1}$

$$\frac{450}{30} \times 60 = 900$$

$$\frac{150}{15} \times 60 = 600$$

$$\begin{array}{r} 15 \\ 30 \overline{) 450} \\ \underline{30} \\ 150 \\ \underline{150} \\ 0 \end{array}$$

(subtraction)
 How many more times does an adult blink than a child?
 $900 - 600 = 300$

Adult	$\frac{450}{30}$	$\times 2$	$=$	$\frac{900}{60}$	
Child	$\frac{150}{15}$	$\times 4$	$=$	$\frac{600}{60}$	$\frac{900}{600}$ $\frac{300}{300}$

Class Opener
sept 16, 2014

Get your text book.
Take out your homework.

P 205
c)

100 meters
9.69 seconds

Tenth
↓
hundredth
↓
the 5

~10.3

10.31 ← less the 5

9.69) 100.0000

969

23100

29070

19300 ←

① move the decimals
(make a whole #)

② divide

22
969
3
2907

9.69
2
1938



1 Batch

2 batches

3 batches

$\xrightarrow{\text{Soda}}$
 Juice

Given

$$\frac{1}{3}$$

2 batches

$$\frac{2}{6}$$

3

$\frac{3}{9}$ out of

25 tokens

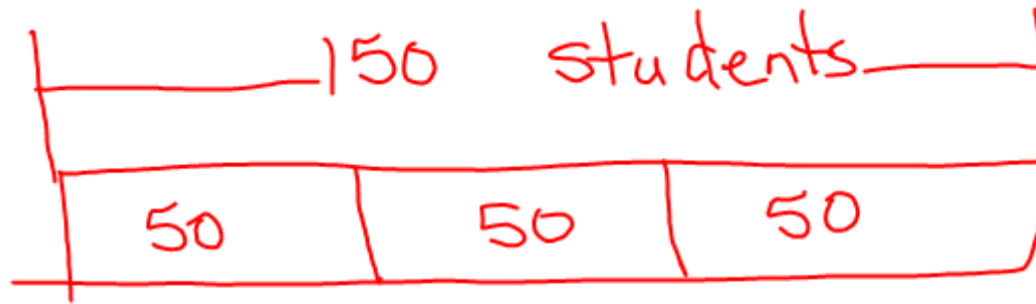
25 coins in a
Package cost \$5

$$\begin{array}{r} 25 \\ .25 \\ \hline 125 \\ 500 \\ \hline \end{array}$$

6.25 Price for 25 tokens
at 25¢ each

$$\begin{array}{r} 6.25 \\ - 5.00 \\ \hline \end{array}$$

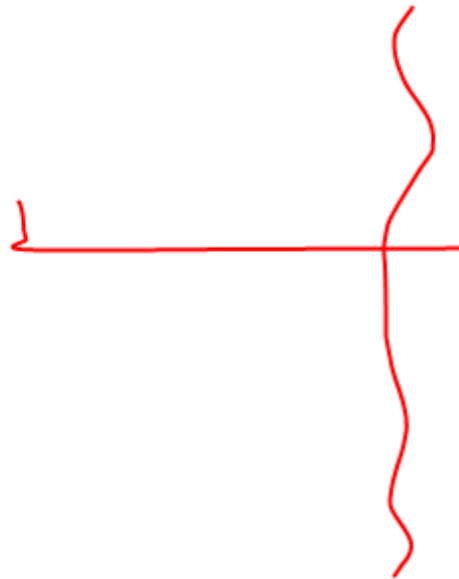
1.25
Savings



fraction
 $\frac{2}{3}$

100 students

Ratio
2 to 3



$$\begin{array}{r} \times 50 \\ \frac{2}{3} = \frac{100}{150} \\ \times 50 \end{array}$$

$$\frac{3}{4} \times 6 = 18$$

$$\frac{3}{4} \times 6 = ? \cdot 24$$

$$\frac{3}{4} = \frac{18}{x}$$

$$\frac{3 \cdot 18}{4} = x$$

$$18 \cdot 4 = 3x$$

$$\frac{72}{3} = \frac{3x}{3}$$

$$24 = x$$

class opener

① $0.47 + 0.36$

② $26.5 - 9.3$

③ $29.4 + 1.7$

④ Use $>$, $<$, or $=$ to compare 34.3 and 34.32

Q 211

Pies	5	10	20
Pounds	2	4	8

Handwritten annotations: $\times 2$ (5 to 10), $\times 4$ (10 to 20), $\times 4$ (2 to 8), $\times 2$ (4 to 8). A large arrow indicates a transformation from the first column to the third.

Wool	4	1	3
Caps	8	2	6

Handwritten annotations: $\div 4$ (4 to 1), $\times 3$ (1 to 3), $\div 4$ (8 to 2), $\times 3$ (2 to 6). A large arrow indicates a transformation from the first column to the third.

③

Dollars	270	27	9
Pesos	3000	300	100

Handwritten annotations: $\div 10$ (270 to 27), $\div 3$ (27 to 9), $\div 10$ (3000 to 300), $\div 3$ (300 to 100), $\div 30$ (270 to 9), $\div 30$ (3000 to 100).

$$\begin{array}{r} 9 \\ 30 \overline{) 270} \\ \underline{270} \\ 0 \end{array}$$

#4)

miles Biked	190	47.5	285
Days	4	1	6

$$\begin{array}{r} 3 \\ 4 \overline{) 47.5} \\ \underline{20} \\ 275 \\ \underline{280} \\ 500 \end{array}$$

47.5	47.5	47.5	47.5
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Handwritten annotation: 190 (above the first two columns)

$$\begin{array}{r} 47.5 \\ 4 \overline{) 190.00} \\ \underline{16} \\ 30 \\ \underline{30} \\ 28 \\ \underline{28} \\ 0 \end{array}$$