



Warm Up Grade 8
March 29, 2016

Study Similar to test questions



1) In a baseball game, Pat made 7 out of 15 hits. Sharon made 4 of 5 hits. Who played better? Explain

Pat
 $\frac{7}{15} = 7 \div 15 = 0.4\bar{6} \approx 46.6\%$
 top : bottom
 Decimal

Sharon
 $\frac{4}{5} = \frac{8}{10} = 0.80 = 80\%$

Sharon made more hits
 $\frac{4 \times 2}{5 \times 2} = \frac{8}{10}$

2) Use mental math to answer

a) 36×5 b) $\$7.01 - \3.99

hit double
 $18 \times 10 = 180$

$7.01 - 4.00$

$\$3.01$

But $\$3.02$

only needed $\$3.99$

if too much

3) Complete the chart

Fraction	Decimal	Percent
$\frac{8}{11}$	0.72	72%
$\frac{15}{7}$	$15 \div 7 = 2.14$	214%
$\frac{789}{1000}$	0.789	78.9%
$\frac{56}{1000} = \frac{28}{500} = \frac{14}{250} = \frac{7}{125}$	0.056	5.6%
$\frac{2}{1000} = \frac{1}{500}$	0.002	0.2%

% \rightarrow dec (\div by 100)
 dec \rightarrow % (\times by 100)

5) If 55% of the regular price is \$19.25, what is the regular price?

$55\% \times R = 19.25$

change to dec

$0.55 \times R = 19.25$

Solve for R by \div both sides by 0.55

$\frac{0.55 R}{0.55} = \frac{19.25}{0.55}$

$R = \$35$

Regular Price was \$35

6) Write 3 equivalent ratios to 75:5

$\div 5 \div 5$

15:1

30:2

45:3

60:4

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1. student's preference

3. $\frac{7}{11}$ change to a decimal

0.6363, then write the equivalent percent

4. a) $3:12$
 $1:4$

b) $5:40$
 $1:8$

c) $8:56$
 $1:7$

d) $9:81$
 $1:9$

e) $33:99$
 $1:3$

f) $22:132$
 $1:6$

5. a) $16:4$
 $4:1$

b) $55:11$
 $5:1$

c) $144:12$
 $12:1$

d) $120:24$
 $5:1$

e) $91:13$
 $7:1$

f) $96:8$
 $12:1$

6. A.

blue: white

$$\begin{array}{l} 4 : 3 \\ 28 : 21 \end{array}$$

more white so lighter

B

blue: white

$$\begin{array}{l} 7 : 5 \\ 28 : 20 \end{array}$$

Shade B is darker.

b) A has more white compared to the blue.

7. Olga scored 3 of 5
21 of 35

Tara 5 of 7
25 of 35

Tara's performance was better

a) Olga $\frac{3}{5}$
 $\frac{21}{35}$

Tara $\frac{5}{7}$
 $\frac{25}{35}$

8. Henhouse A
brown: white
6 : 10

60% brown eggs

so Henhouse B produces more white eggs.

Henhouse B
brown: white
3 : 9

$\frac{1}{3}$ or 33%
brown eggs

6:18

9. A → 3 cans concentrate, 1 can water
B 1 can concentrate, 3 cans water
A is stronger

3 : 9

Find the missing variable:

a) $6 : x = 24 : 44$

$x = 11$

b) $63 : 35 = 9 : n$

$n = 5$

c) $18 : 6 = 27 : y$

Reduce Ratio First

$9 : 3 = 27 : y$

$3 : 1 = 27 : y$

$y = 9$

may need to reduce before you start

$$6 : 2 = 18 : \boxed{y}$$

$\times 3$ (from 6 to 18)

$\times 3$ (from 2 to y)

$\boxed{y=6}$

$$24 : 18 = \frac{12}{z} : 9$$

$\div 2$ (from 24 to 12)

$\div 2$ (from 18 to 9)

$\boxed{z=12}$

2) In a photo the height of building is 6 cm and a the flag pole in the photo is 4 cm. If the flag pole is 3.6 m tall, what is the height of the building?

Photo

height Building : flag

6 cm : 4 cm

Real life +

x :
x :
540 cm

3.6 m
360 cm

x90

5.4 m is the building



Class/Homework

pg. 284 # 10, #11, #12, #13

pg. 291 #4(ace), #5(ace), #6(ace)

Unit 5 Percent, Rates & Ratios April 6 (Wed. TEST)