



Warm Up Grade 8



hits made →
→ total

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

Pat
Hits : Total
7 : 15

Make Term 2 the Same

Sharon
Hits : Total
4 : 5
12 : 15

Sharon did better.

2) Use mental math to answer

a) 36×5
180
36 x 5
↓ half ↓ double
18 x 10 = 180

b) $\$7.01 - \3.99
\$3.02

-7.01
 -3.99

7.01
 $-4.$

 3.01
 $+ 1 \text{ cent to round}$

 3.02

3) Complete the chart

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

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

$55\% \times R = 19.25$

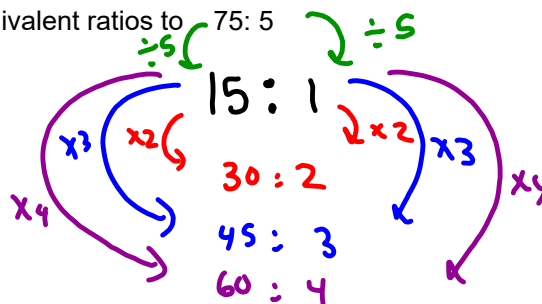
$0.55 \times R = 19.25$

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

$R = \$35$

The regular price is \$35.

6) Write 3 equivalent ratios to 75:5



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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

Find the missing variable:

a) $6 : x = 24 : 44$

$x = 11$

b) $63 : 35 = 9 : n$

$n = 5$

c) $18 : 6 = 27 : y$

$9 : 3 = 27 : y$

$y = 9$

may need
to reduce
before you
start

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

Building : Flag

$$6 \text{ cm} : 4 \text{ cm}$$

Actual

Building : flag

$$\boxed{?} : 3.6 \text{ m}$$



$$\frac{B}{F} = \frac{6}{4}$$

$$\frac{B}{F} = \frac{\square}{3.6}$$

$$\frac{6}{4} \times \frac{\square}{3.6}$$

$$3.6 \cdot \frac{6}{4} = \frac{x}{3.6}$$

$$\frac{3.6 \times 6}{4} = x$$

$$\frac{4 \cdot \square}{4} = \frac{6 \times 3.6}{4}$$

$$? = \frac{6 \times 3.6}{4}$$

Class/Homework

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

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

$$\begin{array}{l}
 F : NF \\
 \times 6 \quad \left(\begin{array}{l} 7 : 5 \\ \rightarrow 42 : 30 \end{array} \right) \times 6 \\
 \underbrace{\hspace{10em}}_{\text{Total}}
 \end{array}
 \qquad
 \begin{array}{l}
 F : NF \\
 \times 10 \quad \left(\begin{array}{l} 4 : 3 \\ \rightarrow 40 : 30 \end{array} \right) \times 10 \\
 \underbrace{\hspace{10em}}_{\text{Total}}
 \end{array}$$

b)

$$\frac{NF}{\text{Total}} = \frac{30}{72} = \text{Dec} \Rightarrow \%$$

$$\frac{30}{70} = \text{Dec} = \%$$