



Grade 10
Essential
Quiz Debrief
Week 5
5 Oct 2023

MrF

**GRADE 10 ESSENTIAL
QUIZ WEEK 5 - 231005**

Name: _____

Date: _____

Weekly quiz.

Closed book. Use your cheat sheet (use mine for now if necessary)

Conversion Tables. Always allowed the conversion tables

Geometric Formulae. Always allowed geometric formulae sheet

Round all decimal answers to the nearest 0.01 unless otherwise indicated

Each individual question is worth two marks

Show work. Always show work. For you, for teacher. Pretend teaching your 12 year old nephew.

Marking. Each individual question is worth 2 marks unless otherwise indicated.

Have your coloured sheets out!!!

1. Solve for x:

a. $\frac{7}{12} = \frac{x}{20}$

b. $\frac{8}{9} = \frac{30}{x}$

We had had a **warm up** with pretty much the same questions!

GRIBSS warm up 05 Oct 2023

Solve

a) $\frac{n}{8} = \frac{5}{12}$ b) $\frac{3}{8} = \frac{15}{x}$

c) If 5 barrels cost \$18, then, Compute cost how much?

Compute

$$\begin{array}{r} 3 \text{ hr } 20 \\ + 2 \text{ hr } 45 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \text{ lb } 6 \text{ oz} \\ - 2 \text{ lb } 9 \text{ oz} \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ ft } 7 \text{ in} \\ + 3 \text{ ft } 2 \text{ in} \\ \hline \end{array}$$

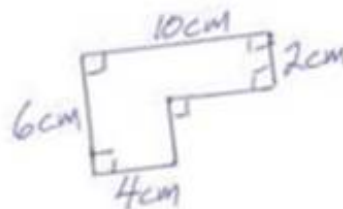
$$\begin{array}{r} 47 \text{ ft} \\ - 20 \text{ ft } 2 \text{ in} \\ \hline \end{array}$$

Convert

d) 6 ft 7 in = _____ in = _____ m

e) 7 lb = _____ kg f) 15.3 mi = _____

Determine the Perimeter or Circumference (name the shape)



← circle
 Determine the circumference

1. Solve for x:

Solving proportions

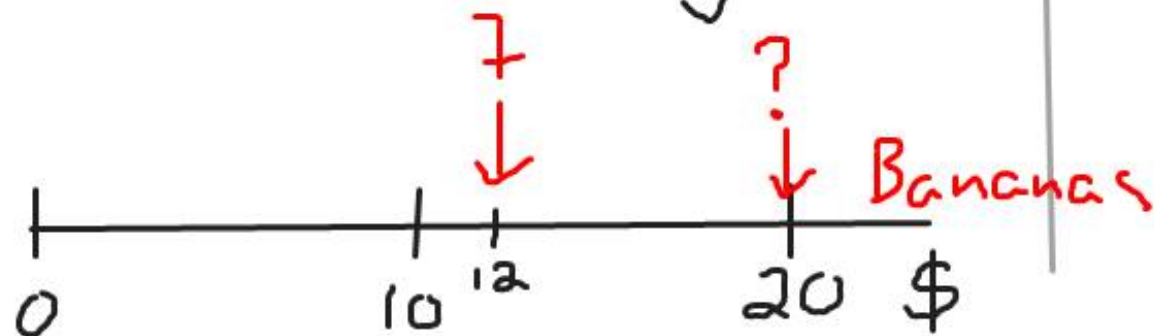
a. $\frac{7}{12} = \frac{x}{20}$

$\frac{7}{12} = \frac{x}{20}$

Cross multiply

$\frac{7 \cdot 20}{12} = x$

$x = 11.67$



b. $\frac{8}{9} = \frac{30}{x}$

$\frac{8}{9} = \frac{30}{x}$

$\frac{9}{8} = \frac{x}{30}$

"Flip"

$\frac{9 \cdot 30}{8} = x$

$x = 33.75$



=



TLAR!



=



2. If 7 bananas cost \$10.00, determine how much 22 bananas will cost.

\$

 x

$$\frac{\$10}{7 \text{ bananas}} = \frac{\$x}{22 \text{ bananas}}$$

$$\frac{\$10 \cdot 22}{7} = x$$

$$x = \$31.43$$

TLAR

we estimated
hit more than 30

Good thing have
times tables
nailed down, eh!

3. Convert as indicated: (Show work of course)

a. $3 \text{ km} = \underline{3,000} \text{ m}$

$$3 \cancel{\text{km}} \cdot \frac{1,000 \text{ m}}{1 \cancel{\text{km}}} = \underline{3,000 \text{ m}}$$

$$\frac{x \text{ km}}{3 \text{ km}} = \frac{1,000 \text{ m}}{1 \text{ km}} ; x = \underline{3,000 \text{ m}}$$

c. $5 \text{ ft } 7 \text{ in} = \underline{67} \text{ in}$

$$\begin{array}{r} \downarrow \\ 5 \cancel{\text{ft}} \cdot \frac{12 \text{ in}}{1 \cancel{\text{ft}}} = 60 \text{ in} \\ + \quad 7 \text{ in} \\ \hline \underline{67 \text{ in}} \end{array}$$

b. $2,350 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

$$2,350 \cancel{\text{g}} \cdot \frac{1 \text{ kg}}{1,000 \cancel{\text{g}}} = \underline{2.35 \cancel{\text{kg}}}$$

d. $7 \text{ lb} = \underline{3.17} \text{ kg}$

$$7 \cancel{\text{lb}} \cdot \frac{1 \text{ kg}}{2.205 \cancel{\text{lb}}} = \underline{3.17 \cancel{\text{kg}}}$$

ILAR!

4. Calculate:

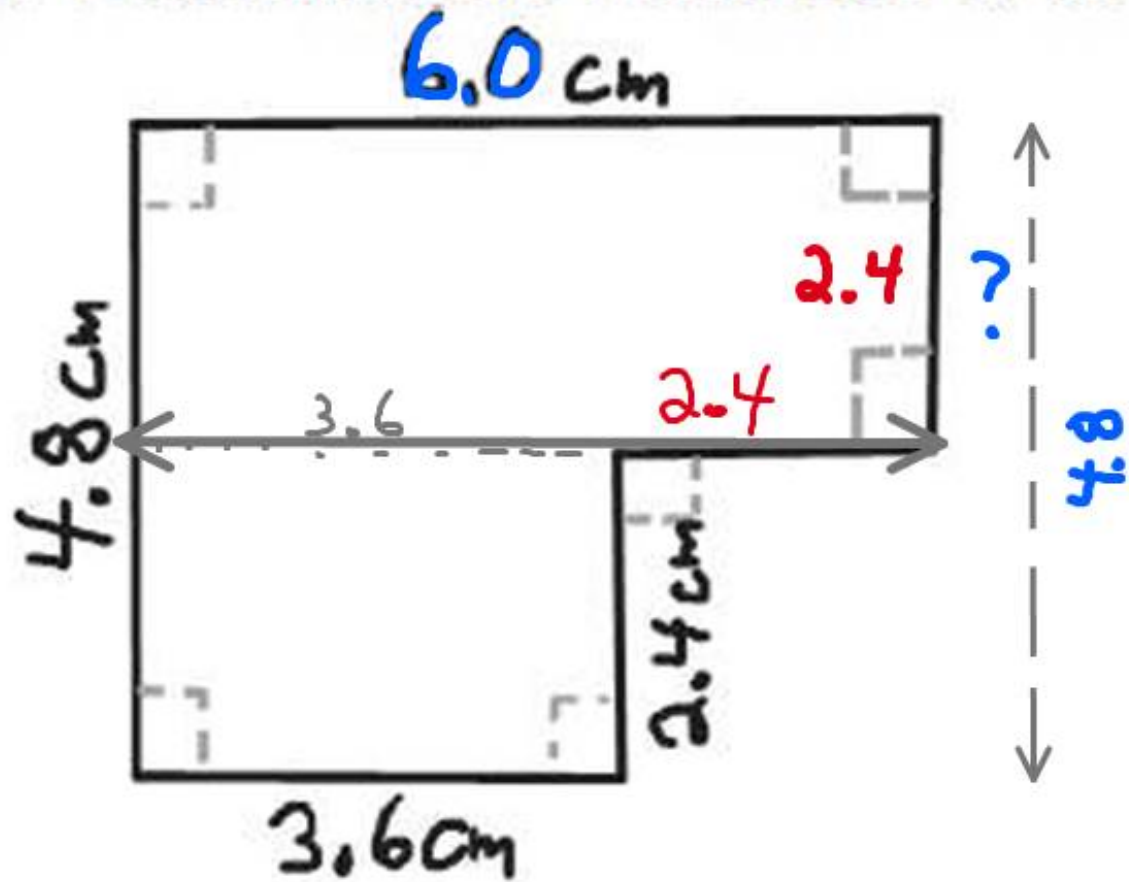
$$\begin{array}{r} 1 \text{ hr} \\ 3 \text{ hr: } 40 \text{ min} \\ \text{a. } \underline{+ 2 \text{ hr: } 30 \text{ min}} \\ \hline 6 \text{ hr: } 10 \text{ min} \end{array}$$

add 1 lb or 16 oz

$$\begin{array}{r} 5 \text{ } \rightarrow 21 \text{ oz} \\ \cancel{6 \text{ lb: } 5 \text{ oz}} \\ \text{b. } \underline{- 2 \text{ lb: } 8 \text{ oz}} \quad \uparrow \uparrow \\ \hline 3 \text{ lb: } 13 \text{ oz} \end{array}$$

$$70 \text{ min} = 1 \text{ hr} - 10 \text{ min}$$

5. Determine the Perimeter of the rectilinear figure:



$$P = 6 + 2.4 + 2.4 + 2.4 + 3.6 + 4.8$$
$$= \underline{21.6 \text{ cm}}$$

a. Perimeter: 21.6 cm

~~b. Area:~~ _____

OMIT. Falling behind
Had not learned yet!

6. **Problem Solve.** The difference of two numbers is 5, their product is 36. Determine the largest of the two numbers. Show work; or at least that your solution checks.

Guess & check!

1st nbr	2nd nbr	Diff	Product
10 ?	5	= 5	$10 \cdot 5 = 50$ Bzzzz!
9 ?	4	= 5 ✓	$9 \cdot 4 = 36$ ✓ Yes

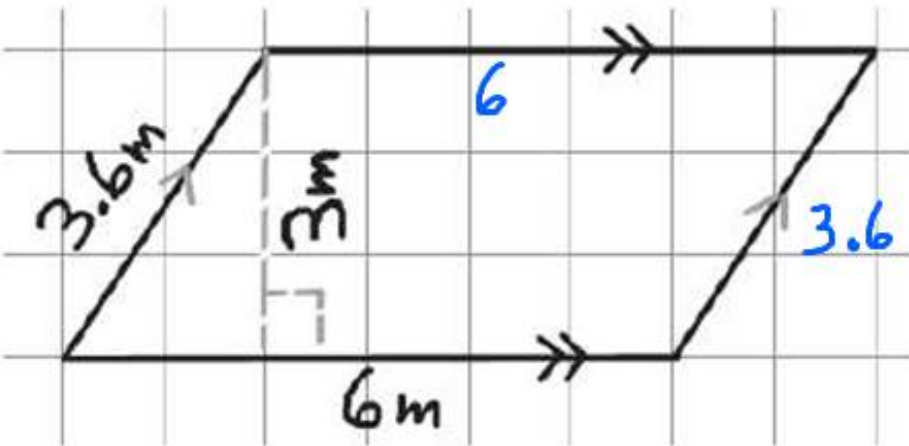
The two number are 9 and 4

Read the question!

The larger number is a "9"

BONUS QUESTION (1 extra mark each if you need them)

1. Determine the Perimeter and Area of the Parallelogram:



a. Perimeter: 19.2 m

b. Area: 18 m²

c. Area: _____ cm²

$$18 \cancel{\text{m}^2} \cdot \frac{100 \text{ cm}}{1 \cancel{\text{m}}} \cdot \frac{100 \text{ cm}}{1 \cancel{\text{m}}} = (180000 \text{ cm}^2)$$

Some "formative" type questions too if you had read ahead!

Consult Geometry Formulae Sheet for Area

a) $P = 2 \cdot 6 + 2 \cdot 3.6 = 19.2 \text{ m}$

b) $A = b \cdot h = 6 \text{ m} \cdot 3 \text{ m} = 18 \text{ m}^2$
on formulae sheet!!

UNITS!!



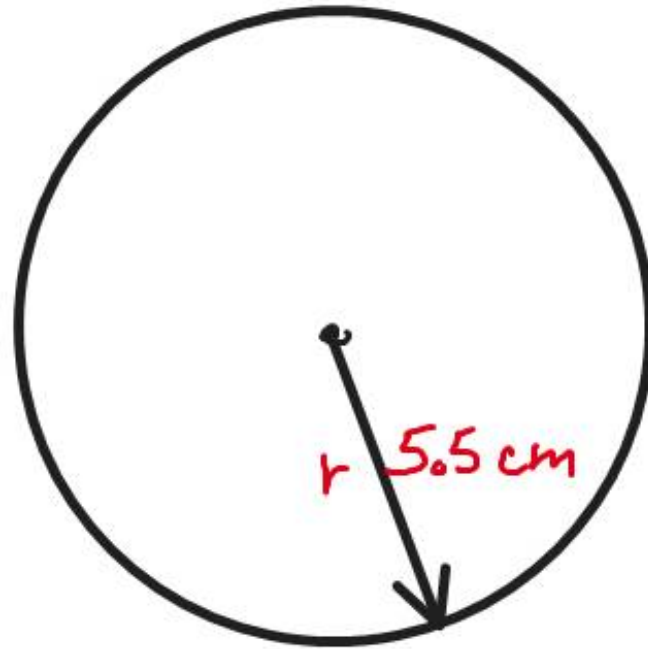
2. Determine the Circumference of a circle with *radius* 5.5 cm

$$C = 2 \cdot \pi \cdot r$$

$$C = 2 \cdot \pi \cdot 5.5$$

$$C = 34.56 \text{ cm}$$

TLAR



$$2 \cdot \pi \cdot 5.5$$

$$= 34.55751918$$

3. Convert: 5ft 7 in = _____ m

$$\begin{array}{l} 5\text{ft } 7\text{in} \\ \rightarrow 5\cancel{\text{ft}} \cdot \frac{12\cancel{\text{in}}}{1\cancel{\text{ft}}} = 60\text{in} \\ \quad + 7\text{in} \quad \text{more} \\ \hline 67\text{in} \end{array} \quad \rightarrow \quad \begin{array}{l} 67\text{in} \cdot \frac{1\text{m}}{39.37\text{in}} \\ = 1.70\text{m} \end{array}$$

4. Draw a picture of a hexagon with a cute little puppy inside it!



Debrief Complete

***Watch our YouTube Playlist
for all the debriefs***

UP Hill!

Real Good!

