



Warm Up Grade 8



Date: _____

Use mental math: $\begin{array}{r} 49.9 \\ - 50.00 \\ \hline - 6.21 \\ \hline 43.79 \end{array}$

1. $\$50 - \$6.21 = \$43.79$
 $50 - 6 = 44$
 $\underline{- 0.20}$
 43.80 1 cent
 $\underline{- 6.21}$
 $\$43.79$

2. $2.36 \times 1000 =$
 $\underline{\underline{2.36}}$
 $= 2360$

3. 15% of 36 =
 $10\% \text{ of } 36 = 3.6$
 $5\% \text{ of } 36 = 1.8$
 $15\% \text{ of } 36 = 5.4$

4. $6240 \div 20 =$
 $\underline{\underline{6240}}$
 $= 312$

From Yesterday

Use the data in the table below. It represents the percent of students that enjoy certain subjects.

If there are 20 students in the class, how many students enjoy each subjects?

Math	30%
Social Studies	15%
Language Arts	25%
Science	20%
French	10%

Math
 $30\% \text{ of Total}$
 \downarrow
 $= 0.30 \times 20$
 $= 6$

$30\% \text{ of } 20 = 6$
 $\downarrow \div 2$
 $15\% \text{ of } 20 = 3$ *S.S.*

LA
 $25\% \text{ of } 20$
 $= 0.25 \text{ of } 20$
 $= 5$

Science
 $20\% \text{ of } 20$
 $= 0.20 \times 20$
 $= 4$

French
 $10\% \text{ of } 20$
 $= 0.10 \times 20$
 $= 2$

Ws 158 --> Solutions

1. This circle graph shows the most popular activities in a First Nations school.

There are 500 students in the school.

All students voted.

a) Which activity did about $\frac{1}{4}$ of the students choose? $\frac{1}{4} = \frac{25}{100} = 25\%$

How can you tell by looking at the graph?

b) Which activity is the most popular? The least popular?

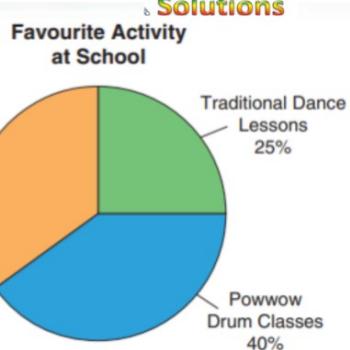
c) Find the number of students who chose each activity.

d) How can you check your answers to part c?

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Homework

Solutions



1a) $\frac{1}{4}$ Dance Lessons

$\frac{1}{4}$ is 25%, or it forms a right angle

b) Most Popular - Drum Classes
Least Popular - Dance Lesson.

c) Dance Lessons
25% of 500
0.25 x 500
125

$$\begin{aligned} 25\% \text{ of } 100 &= 25 \\ 25\% \text{ of } 500 &= 25 \times 5 \\ &= 125 \end{aligned}$$

Stick Games
35% of 500
0.35 x 500
175

$$\begin{aligned} 25\% \text{ of } 500 &= 125 \\ 10\% \text{ of } 500 &= \frac{50}{35\%} \\ &= 175 \end{aligned}$$

Drum Classes
40% of 500
0.4 x 500
200

$$\begin{aligned} 10\% \text{ of } 500 &= 50 \\ 40\% &= 50 \times 4 \\ &= 200 \end{aligned}$$

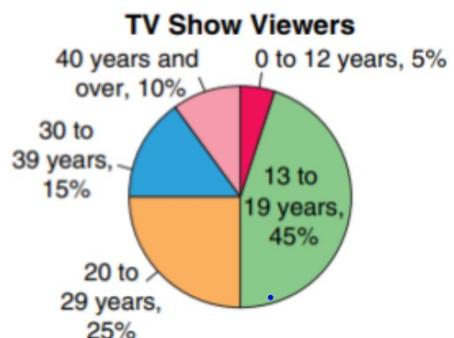
Homework**Solutions**

2. This circle graph shows the ages of viewers of a TV show.

One week, approximately 250 000 viewers tuned in.

a) Which two age groups together make up $\frac{1}{2}$ of the viewers? $\frac{1}{2} = \frac{50}{100} = 50\%$

b) How many viewers were in each age group?
 i) 13 to 19 ii) 20 to 29 iii) 40 and over



2. 2 age groups $\rightarrow \frac{1}{2}$ of viewers
 0-12 years and 13-19 years.

b) i) 13-19 45%
 45% of 250 000
 $0.45 \times 250 000$
 112 500

ii) 20-29 25%
 25% of 250 000
 $0.25 \times 250 000$
 62 500

iii) 40-over 10%
 10% of 250 000
 25 000

Homework**Solutions**

Class/Homework

WS 158 #3, 4, 5, 7

From yesterday's Sheet

Extra worksheets

All solutions are in this notebook
in next slides. Mark at the end of
class