

## Unit 4: Circles and Area

Name: \_\_\_\_\_

**4.6 - Interpreting Circle Graphs**

60  
Sixty Grade 7 students at l'ecole Orleans were surveyed to find out their favourite after school activity. The results are shown on the circle graph.

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**After-School Activities**

1. Which activity is most popular?

Hanging out with friends

2. Which activity is least popular?

Reading



3. How many students prefer each type of after-school activity?  
 (Show your workings).

After-School Activities	Percentage	Fraction	Decimal	# of students who prefer the activity
Hanging out with friends	30%	$\frac{30}{100}$	0.30	$0.30 \times 60 = 18$
Playing video games	25%	$\frac{25}{100}$	0.25	$0.25 \times 60 = 15$
Playing sports	20%	$\frac{20}{100}$	0.20	$0.20 \times 60 = 12$
Watching TV	10%	$\frac{10}{100}$	0.10	$0.10 \times 60 = 6$
Reading	5%	$\frac{5}{100}$	0.05	$0.05 \times 60 = 3$
Doing homework	10%	$\frac{10}{100}$	0.10	$0.10 \times 60 = 6$

4. Which activity is the favourite for about  $\frac{1}{3}$  of the students? Why do you think so?

$$\frac{1}{3} = 0.333... \text{ about } 33\%$$

Hanging out with friends is favourite for about  $\frac{1}{3}$  of the students because it is closest to 33%.

5. Write 3 more things you know from looking at the graph.

- doing homework is the 2<sup>nd</sup> least favourite.
- both doing homework and watching tv have the same percentages.
- playing video games is  $\frac{1}{4}$  because it represents 25%

6. What do you notice about the sum of the percents? Explain.

$$30\% + 20\% + 10\% + 5\% + 10\% + 25\% = 100\%$$

The sum is 100% because it represents the whole group being surveyed.