

Grade 6 Mathematics Worksheet

Fun Fact!

Did you know that a jiffy is an actual unit of time? It means $1/100$ th of a second! ⌚

Section 1: Fractions

A fraction is a way to show a part of a whole. It has two numbers:

- The top number is called the numerator. It tells how many parts you have.
- The bottom number is called the denominator. It tells how many equal parts the whole is divided into.

For example, in the fraction $3/4$:

- The numerator is 3, which means you have 3 parts.
- The denominator is 4, which means the whole is divided into 4 equal parts.

So, $3/4$ means you have 3 out of 4 equal parts of something.

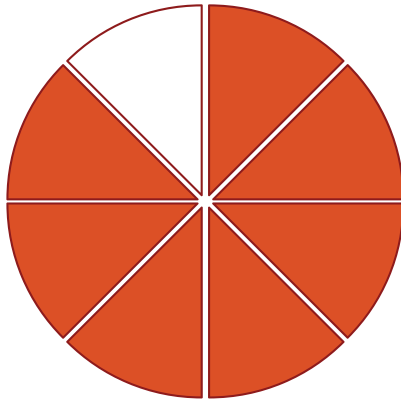


Instructions: Answer the questions about fractions.

1. Shade in $5/8$ of the rectangle below:



2. What fraction of the circle is shaded?



3. Write the fraction for the shaded part of the shape:

- 5 out of 8 parts are shaded: _____
- 3 out of 7 parts are shaded: _____

4. What is $\frac{3}{4}$ of 20? _____

5. What is $\frac{2}{5}$ of 15? _____

Section 2: Decimals

A decimal is a way of showing a number that is not whole. It uses a dot called a decimal point to separate the whole number part from the fractional part.

Here's how it works:

- The numbers to the left of the decimal point are whole numbers.
- The numbers to the right of the decimal point are parts of a whole, like tenths, hundredths, etc.

For example, in the number 3.25:

- The number 3 is the whole number part.
- The number 25 is the fractional part, which means 25 hundredths (or 25 parts out of 100).

So, 3.25 means 3 whole units and 25 hundredths of another unit.



Instructions: Solve the following decimal problems

$$4.5 + 2.3 = \underline{\hspace{2cm}}$$

$$7.8 - 3.6 = \underline{\hspace{2cm}}$$

$$3.4 \times 2 = \underline{\hspace{2cm}}$$

$$8.1 \div 3 = \underline{\hspace{2cm}}$$

Convert the fraction to a decimal:

$1/2 =$ _____

$3/4 =$ _____

Convert the decimal to a fraction:

$0.25 =$ _____

$0.75 =$ _____

Section 3: Word Problems

Instructions: Read the problem carefully and solve it. Show your working.

1. There are 48 students in a grade. The teacher wants to divide them into groups of 8. How many groups will there be?

2. A baker has 96 cupcakes and wants to put them into boxes. Each box can hold 12 cupcakes. How many boxes does the baker need? -

3. If a pizza is cut into 12 equal slices and you eat 5 slices, what fraction of the pizza did you eat?

4. Sara has 35 apples. She gives $3/5$ of them to her friend. How many apples does she give to her friend?

Section 4: Measurement

Understand Units: Know the different units of measurement, such as meters for length, liters for volume, and grams for weight. Remember that 1 meter = 100 centimeters, 1 liter = 1000 milliliters, and 1 kilogram = 1000 grams.

Convert Units: Practice converting between units. For example:

To convert from meters to centimeters, multiply by 100 (1 meter = 100 centimeters).

To convert from liters to milliliters, multiply by 1000 (1 liter = 1000 milliliters).

Use a Ruler Correctly: When measuring length, start from the "0" mark on the ruler. Ensure the object is straight and lined up with the ruler for an accurate measurement.

Measure Carefully: Always check your measurements twice to avoid mistakes. Make sure you are using the correct units for what you are measuring.

Estimate First: Before measuring, estimate the length, volume, or weight. This helps you get a rough idea and check if your final measurement makes sense.

Practice Measuring: Use different measuring tools (like rulers, measuring cups, and scales) to practice and get comfortable with measurement. For example, measure the length of your desk, the volume of a water bottle, and the weight of a fruit.

Label Units: When writing down your measurements, always include the unit (e.g., cm, mL, kg). This helps avoid confusion and makes it clear what you are measuring.

Check for Precision: Be aware of the precision of your measuring tools. Some tools might measure in whole numbers, while others can measure in smaller increments (like millimeters or milliliters).



Instructions: Solve the following measurement problems.

1. Convert the following units:

- 2 meters to centimeters = _____ cm
- 500 milliliters to liters = _____ L
- 3 kilometers to meters = _____ m

2. If a pencil is 15 cm long, how many millimeters long is it? _____

3. A container holds 2.5 liters of water. How many milliliters of water does it hold? _____

4. Convert the following:

- 1.2 meters to millimeters = _____ mm
- 0.75 liters to milliliters = _____ ml

5. If a rope is 4.5 meters long, how many centimeters long is it? _____

Section 5: Geometry

Instructions: Answer the questions about shapes.

1. How many sides does a heptagon have? _____

2. How many sides does a nonagon have? _____

3. Draw a parallelogram and label its sides.

My parallelogram

4. What is the name of a shape with ten sides? _____

5. Draw a trapezoid and label its bases and height

My trapezoid

