Mathematics Worksheet

Name:_____.   **Date**:_____.   **Grade**: 6th

Each section includes 5 questions based on your study guide topics. Read each question carefully and answer.

1-1 Fluently Add, Subtract and Multiply Decimals

1. Add 12.45 + 7.3. Remember to line up the decimal points.

Ans:

2. Subtract 8.56 – 3.29. Show your work clearly.

Ans:

3. Multiply 4.2 × 0.5 and write your answer as a decimal.

Ans:

4. If a pencil costs $1.25 per piece and you buy 6 pieces, what is the total cost?

Ans:

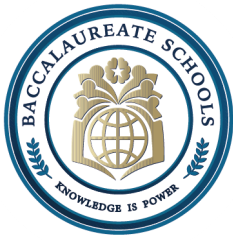5. Subtract 9.79 – 2.89. Show your work clearly.

Ans:

1-2 Fluently Divide Whole Numbers and Decimals

1. Divide 56 ÷ 7.

Ans:

2. Divide 4.8 ÷ 0.6 and write your answer as a whole number.

Ans:

3. Divide 2.4 ÷ 0.3 = ? [Hint: multiply both numbers by 10 first]
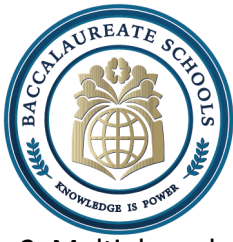
Ans:

4. Divide 9.6 ÷ 0.8.

Ans:

5. Divide 22.8 ÷ 5.7.

Ans:

1-3 Multiply Fractions

1. Multiply and simplify: $\frac{2}{3} \times \frac{4}{5}$

Ans:

2. Multiply and simplify: $\frac{7}{8} \times \frac{2}{3}$

Ans:

3. A piece of ribbon is $\frac{3}{4}$ meter long. You use $\frac{2}{5}$ of it. How much did you use?

Ans:

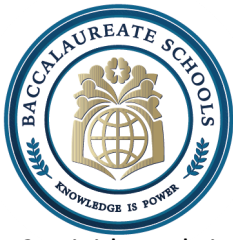4. Multiply and simplify: $\frac{5}{6} \times \frac{3}{4}$

Ans:

5. Multiply and simplify: $\frac{7}{9} \times \frac{3}{14}$

Ans:

1-4 Understand Division with Fractions

1. Find the reciprocal of $\frac{5}{8}$

Ans:

2. Divide and simplify: $3 \div \frac{1}{2}$

Ans:

3. Divide and simplify: $\frac{2}{3} \div \frac{4}{5}$

Ans:
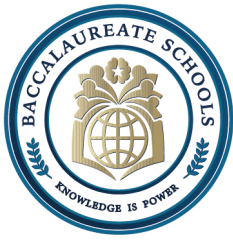
4. Divide and simplify: $7 \div \frac{1}{2}$

Ans:

5. Find the reciprocal of $\frac{4}{22}$ and simplify.

Ans:

1-5 Divide Fractions by Fractions

1. Solve $\frac{3}{4} \div \frac{2}{5}$

Ans:

2. Divide and simplify: $\dfrac{5}{6} \div \dfrac{1}{3}$

Ans:

3. Find $\dfrac{4}{7} \div \dfrac{2}{7}$

Ans:
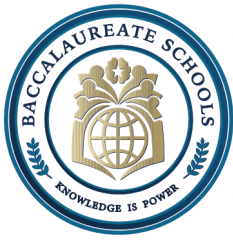
4. Divide and simplify: $\dfrac{6}{49} \div \dfrac{3}{7}$

Ans:

5. Divide and simplify: $\dfrac{9}{10} \div \dfrac{3}{5}$

Ans:

1-6 Divide Mixed Numbers

1. Convert $2\dfrac{1}{2}$ into an improper fraction.

Ans:

2. Solve $3\frac{1}{3} \div \frac{2}{5}$

Ans:

3. Divide and simplify: $4\frac{1}{2} \div 1\frac{1}{2}$

Ans:
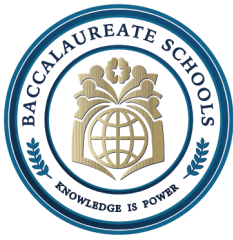
4. Covert $\frac{23}{5}$ into a mixed fraction.

Ans:

5. Divide and simplify: $1\frac{3}{4} \div \frac{7}{8}$

Ans:

1-7 Solve Problems with Rational Numbers

1. A rope is 15 meters long. Each piece is 2.5 meters. How many pieces can be cut?

Ans:

2. If a car travels 186.3 km in 3.9 hours, what is its speed per hour?

[Hint: $speed = \frac{distance\ (km)}{time\ (hr)}$]

Ans:

3. A recipe uses $\frac{2}{3}$ cup of flour per batch. How much flour is needed for 5 batches?

Ans:

4. Find the total cost if each notebook costs $2.85 and you buy 7 of them.

Ans:

5. There are $3\frac{1}{2}$ liters of water in a water bottle. How many water bottles are needed to fill a container that holds 21 liters of water?

Ans: