

Summer Work

Math:

Division

Estimate to HELP you solve but you need an exact answer.

Example: $1,248 \div 24$

Step 1: Divide

24 goes into 124 about 5 times (because $24 \times 5 = 120$).

Step 2: Multiply

$$24 \times 5 = 120$$

Step 3: Subtract

$$124 - 120 = 4$$

Step 4: Bring Down

Bring down the 8 $\rightarrow 48$

Step 5: Divide Again

24 goes into 48 exactly 2 times.

Step 6: Multiply

$$24 \times 2 = 48$$

Step 7: Subtract

$$48 - 48 = 0$$

Final Answer: **52**

Always check: $52 \times 24 = 1,248$ ✓

Part A – 3-Digit ÷ 1-Digit

Show all work.

$$1.864 \div 6 = \underline{\hspace{2cm}}$$

Clue: 6 goes into 8 how many times?

$$2.945 \div 5 = \underline{\hspace{2cm}}$$

Clue: 5 goes into 9 how many times?

$$3.728 \div 4 = \underline{\hspace{2cm}}$$

Clue: 4 goes into 7 how many times?

$$4.672 \div 8 = \underline{\hspace{2cm}}$$

Clue: 8 goes into 6? If it doesn't, look at 67.

$$5.936 \div 3 = \underline{\hspace{2cm}}$$

Clue: 3 goes into 9 how many times?

Part B – 4-Digit $\div$ 2-Digit and 3-Digit

Show all work.

$$6.1,248 \div 24 = \underline{\hspace{2cm}}$$

Clue: 24 goes into 124 about how many times?

Try estimating first.

$$7. 3,672 \div 36 = \underline{\hspace{2cm}}$$

Clue: 36 goes into 36 how many times?

$$8. 4,935 \div 45 = \underline{\hspace{2cm}}$$

Clue: 45 is close to 50. Use estimation to help.

$$9. 5,184 \div 72 = \underline{\hspace{2cm}}$$

Clue: 72 goes into 518 about how many times?

$$10. \quad 7,236 \div 108 = \underline{\hspace{2cm}}$$

Clue: 108 goes into 723 about how many times?

Estimate using 100.

Challenge Problems

$$11. \quad 2,304 \div 48 = \underline{\hspace{2cm}}$$

Clue: 48 is close to 50. Estimate first.

12. $8,424 \div 216 =$ _____

Clue: 216 goes into 842 about how many times?
Estimate carefully.

Converting Decimals to percents:

Converting Decimals to Percents

Name: _____

Date: _____

Directions:

To convert a decimal to a percent:

 Move the decimal point **two places to the right**

 Add a percent sign (%)

Example:

$$0.45 \rightarrow 45\%$$

$$1.2 \rightarrow 120\%$$

Part A – Basic Decimals

$$1.0.3 = \underline{\hspace{2cm}} \%$$

$$2.0.7 = \underline{\hspace{2cm}} \%$$

$$3.0.05 = \underline{\hspace{2cm}} \%$$

$$4.0.9 = \underline{\hspace{2cm}} \%$$

$$5.0.12 = \underline{\hspace{2cm}} \%$$

Part B – Hundredths

$$6.0.25 = \underline{\hspace{2cm}} \%$$

$$7.0.48 = \underline{\hspace{2cm}} \%$$

$$8.0.63 = \underline{\hspace{2cm}} \%$$

$$9.0.80 = \underline{\hspace{2cm}} \%$$

$$10. \quad 0.99 = \underline{\hspace{2cm}} \%$$

Part C – Thousandths (Move Carefully!)

11. $0.375 = \underline{\hspace{2cm}} \%$

12. $0.402 = \underline{\hspace{2cm}}\%$

13. $0.006 = \underline{\hspace{2cm}} \%$

14. $0.125 = \underline{\hspace{2cm}} \%$

15. $0.875 = \underline{\hspace{2cm}} \%$

Part D – Greater Than 1

16. $1.2 = \underline{\hspace{2cm}}\%$

17. $2.35 = \underline{\hspace{2cm}} \%$

18. $1.05 = \underline{\hspace{2cm}} \%$

19. $3.4 = \underline{\hspace{2cm}}\%$

20. $0.01 = \underline{\hspace{2cm}} \%$

Converting Fractions & Mixed Numbers to Decimals

Name: _____

Date: _____

Directions:

To convert a fraction to a decimal:

👉 Divide the numerator by the denominator.

To convert a mixed number:

👉 Multiply the whole number by the denominator.

👉 Add the numerator.

👉 Divide by the denominator.

OR

👉 Convert the fraction part to a decimal and add it to the whole number.

Example:

$$\frac{3}{4} = 3 \div 4 = 0.75$$

$$1 \frac{1}{2} = 1 + (1 \div 2) = 1.5$$

Part A – Basic Fractions

1. $1/2 =$ _____

2. $3/4 =$ _____

3. $1/5 =$ _____

4. $2/5 =$ _____

5. $3/10 =$ _____

Part B – Denominators of 4, 8, and 20

6. $1/4 =$ _____

7. $3/8 =$ _____

8. $5/8 =$ _____

9. $7/20 =$ _____

10. $9/20 =$ _____

Part C – Larger Fractions

11. $7/5 =$ _____

12. $11/4 =$ _____

13. $13/8 =$ _____

14. $15/6 =$ _____

15. $18/9 =$ _____

Part D – Mixed Numbers

16. $1 \frac{1}{2} =$ _____

17. $2 \frac{3}{4} =$ _____

18. $3 \frac{2}{5} =$ _____

19. $4 \frac{1}{8} =$ _____

20. $5 \frac{3}{10} =$ _____

6th Grade Math Review

Solving Fractions Using Different Operations

Name: _____

Date: _____

Directions:

Show all work. Simplify all answers.

Convert improper fractions to mixed numbers when possible.

Part A – Addition (Find Common Denominators)

1. $\frac{1}{4} + \frac{3}{4} =$ _____

2. $\frac{2}{3} + \frac{1}{6} =$ _____

3. $\frac{5}{8} + \frac{1}{4} =$ _____

Part B – Subtraction

4. $\frac{7}{8} - \frac{3}{8} =$ _____

5. $\frac{5}{6} - \frac{1}{3} =$ _____

6. $\frac{9}{10} - \frac{2}{5} =$ _____

Part C – Multiplication (Multiply Straight Across)

7. $\frac{2}{3} \times \frac{4}{5} =$ _____

$$8. 7/8 \times 3/4 = \underline{\hspace{2cm}}$$

$$9. 5/6 \times 2/3 = \underline{\hspace{2cm}}$$

Part D – Division (Keep, Change, Flip)

$$10. \quad 3/4 \div 1/2 = \underline{\hspace{2cm}}$$

$$11. \quad 5/6 \div 2/3 = \underline{\hspace{2cm}}$$

$$12. \quad 7/9 \div 1/3 = \underline{\hspace{2cm}}$$

Part E – Mixed Practice

$$13. \quad 1 \frac{1}{2} + 3/4 \underline{\hspace{2cm}}$$

$$14. \quad 2 \frac{1}{3} - 5/6 = \underline{\hspace{2cm}}$$

$$15. \quad 1 \frac{1}{4} \times 2/3 = \underline{\hspace{2cm}}$$

★ Helpful Reminders

- For addition/subtraction → Find a common denominator

- For multiplication → Multiply across, then simplify
- For division → Keep, Change, Flip
- Always simplify your answer

6th Grade Math Review

Operations with Decimals

Name: _____

Date: _____

Directions:

Show all work. Line up decimals carefully when adding or subtracting.

For division, move the decimal if needed.

Addition

$$1.4.35 + 2.8 = \underline{\hspace{2cm}}$$

$$2.12.6 + 3.47 = \underline{\hspace{2cm}}$$

Subtraction

$$3.9.5 - 4.28 = \underline{\hspace{2cm}}$$

$$4.15.04 - 6.7 = \underline{\hspace{2cm}}$$

Multiplication

$$5.3.4 \times 2.5 = \underline{\hspace{2cm}}$$

$$6.0.6 \times 0.8 = \underline{\hspace{2cm}}$$

$$7.4.25 \times 3 = \underline{\hspace{2cm}}$$

Division

$$8.7.2 \div 3 = \underline{\hspace{2cm}}$$

$$9.5.4 \div 0.9 = \underline{\hspace{2cm}}$$

$$10. \quad 12.48 \div 4 = \underline{\hspace{2cm}}$$

Helpful Reminders

- Add/Subtract → Line up decimal points

- Multiply → Multiply normally, then count decimal places
- Divide → Make the divisor a whole number first

Please show all of your work. IF you need to include scratch paper please staple to and label all headings so I know which problems your work goes with.