



RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

MATHEMATICS BOOKLET

Level 5-6 Term 2 Week 9

THIS WEEK'S FOCUS

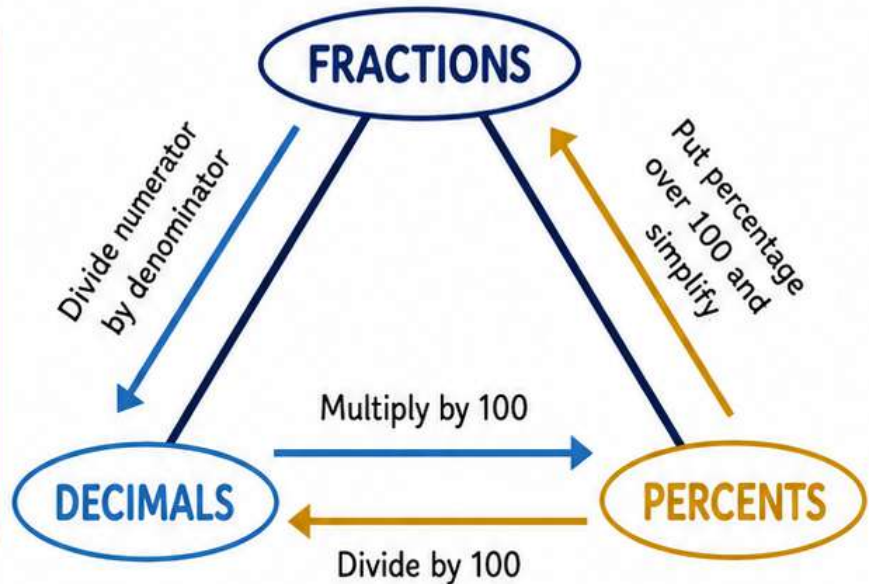
- ✓ Equivalent Fractions
- ✓ Fractions, Decimals, Percentages
- ✓ Multiplying and Dividing Fractions Revision

Fractions, Decimals & Percentages

3 different ways to show the same value!

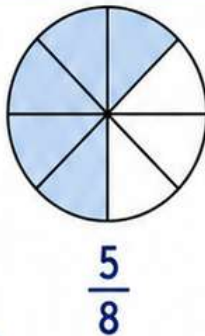
1) Quick Reminder

- Fraction = top number over bottom number
- Decimal = a number with a decimal point
- Percentage = a number out of 100
- Example: $\frac{1}{2} = 0.5 = 50\%$



2) Fraction → Decimal

- Divide the numerator by the denominator.
- Top ÷ bottom
- The numerator goes inside the division symbol.
- The denominator stays outside.



$$\frac{5}{8} = 5 \div 8 = 0.625$$

$$8 \overline{)5.000}$$

It is 8 going into 5, not 5 going into 8.

3) Decimal → Percentage



- Multiply by 100.
- Move the decimal point 2 places to the right.

$$0.625 \times 100 = 62.5\%$$

4) Percentage → Decimal



- Divide by 100.
- Move the decimal point 2 places to the left.

$$62.5\% \div 100 = 0.625$$

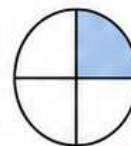
5) Percentage → Fraction



- Put the percentage over 100.
- Then simplify.

$$75\% = \frac{75}{100} = \frac{3}{4}$$

6) Decimal → Fraction



- Write the decimal as a fraction using place value.
- Then simplify.

$$0.75 = \frac{75}{100} = \frac{3}{4}$$

$$0.625 = \frac{625}{1000} = \frac{5}{8}$$

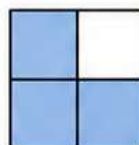
7) Mixed Number Example

$$5 \frac{3}{4} = 5 + \frac{3}{4}$$

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

$$\text{So, } 5 \frac{3}{4} = 5.75$$

$$5.75 \times 100 = 575\%$$



Mixed numbers can be greater than 1 whole, so the percentage can be more than 100%.



Find the number that makes an equivalent fraction.

Ex) $\frac{8}{9} = \frac{80}{90}$

1) $\frac{1}{3} = \frac{\quad}{15}$

2) $\frac{1}{2} = \frac{\quad}{4}$

3) $\frac{1}{4} = \frac{\quad}{12}$

4) $\frac{1}{5} = \frac{\quad}{20}$

5) $\frac{4}{7} = \frac{36}{\quad}$

6) $\frac{5}{10} = \frac{10}{\quad}$

7) $\frac{2}{6} = \frac{4}{\quad}$

8) $\frac{1}{10} = \frac{\quad}{90}$

9) $\frac{3}{6} = \frac{\quad}{12}$

10) $\frac{1}{3} = \frac{8}{\quad}$

11) $\frac{4}{6} = \frac{\quad}{12}$

12) $\frac{8}{9} = \frac{72}{\quad}$

13) $\frac{1}{2} = \frac{3}{\quad}$

14) $\frac{1}{3} = \frac{4}{\quad}$

15) $\frac{8}{10} = \frac{32}{\quad}$

16) $\frac{5}{10} = \frac{35}{\quad}$

17) $\frac{7}{8} = \frac{\quad}{72}$

18) $\frac{4}{7} = \frac{12}{\quad}$

19) $\frac{6}{7} = \frac{54}{\quad}$

20) $\frac{2}{3} = \frac{\quad}{18}$

Answers

Ex. 90

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Find the number that makes an equivalent fraction.

Ex) $\frac{4}{8} = \frac{40}{80}$

1) $\frac{3}{5} = \frac{\quad}{40}$

2) $\frac{2}{5} = \frac{\quad}{20}$

3) $\frac{6}{8} = \frac{24}{\quad}$

4) $\frac{7}{9} = \frac{56}{\quad}$

5) $\frac{1}{2} = \frac{10}{\quad}$

6) $\frac{2}{4} = \frac{12}{\quad}$

7) $\frac{1}{2} = \frac{\quad}{16}$

8) $\frac{1}{2} = \frac{\quad}{8}$

9) $\frac{2}{3} = \frac{16}{\quad}$

10) $\frac{1}{2} = \frac{2}{\quad}$

11) $\frac{2}{3} = \frac{\quad}{21}$

12) $\frac{2}{7} = \frac{\quad}{70}$

13) $\frac{3}{7} = \frac{9}{\quad}$

14) $\frac{1}{2} = \frac{\quad}{14}$

15) $\frac{1}{2} = \frac{\quad}{10}$

16) $\frac{4}{7} = \frac{\quad}{49}$

17) $\frac{6}{8} = \frac{\quad}{24}$

18) $\frac{4}{7} = \frac{20}{\quad}$

19) $\frac{2}{6} = \frac{\quad}{42}$

20) $\frac{2}{7} = \frac{14}{\quad}$

Answers

Ex. **80**

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

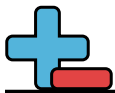
16. _____

17. _____

18. _____

19. _____

20. _____



Find the number that makes an equivalent fraction.

Ex) $\frac{3}{5} = \frac{18}{30}$

1) $\frac{6}{10} = \frac{\quad}{70}$

2) $\frac{2}{7} = \frac{6}{\quad}$

3) $\frac{1}{3} = \frac{3}{\quad}$

4) $\frac{3}{8} = \frac{30}{\quad}$

5) $\frac{4}{7} = \frac{32}{\quad}$

6) $\frac{1}{5} = \frac{9}{\quad}$

7) $\frac{2}{6} = \frac{\quad}{42}$

8) $\frac{5}{10} = \frac{45}{\quad}$

9) $\frac{5}{9} = \frac{15}{\quad}$

10) $\frac{1}{5} = \frac{3}{\quad}$

11) $\frac{1}{3} = \frac{\quad}{15}$

12) $\frac{1}{6} = \frac{7}{\quad}$

13) $\frac{7}{9} = \frac{\quad}{72}$

14) $\frac{5}{8} = \frac{\quad}{24}$

15) $\frac{1}{8} = \frac{\quad}{72}$

16) $\frac{5}{7} = \frac{25}{\quad}$

17) $\frac{2}{6} = \frac{18}{\quad}$

18) $\frac{1}{3} = \frac{8}{\quad}$

19) $\frac{1}{7} = \frac{\quad}{21}$

20) $\frac{1}{2} = \frac{3}{\quad}$

AnswersEx. 18

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Find the number that makes an equivalent fraction.

Ex) $\frac{3}{5} = \frac{9}{15}$

1) $\frac{2}{3} = \frac{\quad}{6}$

2) $\frac{3}{5} = \frac{12}{\quad}$

3) $\frac{1}{8} = \frac{2}{\quad}$

4) $\frac{1}{2} = \frac{8}{\quad}$

5) $\frac{2}{6} = \frac{14}{\quad}$

6) $\frac{2}{5} = \frac{16}{\quad}$

7) $\frac{1}{2} = \frac{5}{\quad}$

8) $\frac{5}{6} = \frac{\quad}{42}$

9) $\frac{2}{4} = \frac{\quad}{28}$

10) $\frac{1}{5} = \frac{10}{\quad}$

11) $\frac{2}{4} = \frac{\quad}{32}$

12) $\frac{1}{4} = \frac{7}{\quad}$

13) $\frac{2}{8} = \frac{\quad}{24}$

14) $\frac{2}{5} = \frac{4}{\quad}$

15) $\frac{1}{8} = \frac{9}{\quad}$

16) $\frac{1}{10} = \frac{5}{\quad}$

17) $\frac{1}{2} = \frac{4}{\quad}$

18) $\frac{3}{6} = \frac{21}{\quad}$

19) $\frac{2}{9} = \frac{12}{\quad}$

20) $\frac{7}{8} = \frac{70}{\quad}$

AnswersEx. 9

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Fractions to percents

Grade 6 Percents Worksheet

Convert.

1. $\frac{7}{10} =$ _____

2. $\frac{23}{100} =$ _____

3. $\frac{9}{10} =$ _____

4. $\frac{54}{100} =$ _____

5. $\frac{4}{10} =$ _____

6. $\frac{42}{100} =$ _____

7. $\frac{2}{10} =$ _____

8. $\frac{79}{100} =$ _____

9. $\frac{65}{100} =$ _____

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

11. $\frac{62}{100} =$ _____

12. $\frac{12}{100} =$ _____

13. $\frac{72}{100} =$ _____

14. $\frac{1}{10} =$ _____

15. $\frac{7}{100} =$ _____

16. $\frac{5}{10} =$ _____

Fractions to percents

Grade 6 Percents Worksheet

Convert.

1) $\frac{1}{2} =$ _____

2) $\frac{4}{6} =$ _____

3) $\frac{1}{25} =$ _____

4) $\frac{58}{100} =$ _____

5) $\frac{1}{4} =$ _____

6) $\frac{4}{5} =$ _____

7) $\frac{3}{10} =$ _____

8) $\frac{21}{25} =$ _____

9) $\frac{34}{50} =$ _____

10) $\frac{5}{6} =$ _____

11) $\frac{7}{20} =$ _____

12) $\frac{13}{25} =$ _____

13) $\frac{1}{10} =$ _____

14) $\frac{70}{100} =$ _____

15) $\frac{3}{5} =$ _____

16) $\frac{2}{4} =$ _____



Percents to fractions

Grade 6 Percents Worksheet

Convert the percents into fractions with a denominator of 100

1. $54\% =$ _____

2. $86\% =$ _____

3. $41\% =$ _____

4. $39\% =$ _____

5. $15\% =$ _____

6. $57\% =$ _____

7. $27\% =$ _____

8. $5\% =$ _____

9. $29\% =$ _____

10. $25\% =$ _____

11. $70\% =$ _____

12. $6\% =$ _____

13. $22\% =$ _____

14. $100\% =$ _____



Percents to fractions

Grade 6 Percents Worksheet

Convert the percents into fractions with a denominator of 100, then simplify if possible.

1. $16\% =$ _____

2. $36\% =$ _____

3. $52\% =$ _____

4. $63\% =$ _____

5. $62\% =$ _____

6. $4\% =$ _____

7. $44\% =$ _____

8. $70\% =$ _____

9. $19\% =$ _____

10. $100\% =$ _____

11. $55\% =$ _____

12. $2\% =$ _____

13. $90\% =$ _____

14. $13\% =$ _____



Percents to fractions

Grade 6 Percents Worksheet

Convert the percents into both decimals and fractions. Simplify the fractions if possible.

1. $36\% =$ 0.36 or $\frac{36}{100}$ or $\frac{9}{25}$

2. $26\% =$ _____

3. $19\% =$ _____

4. $72\% =$ _____

5. $8\% =$ _____

6. $6\% =$ _____

7. $5\% =$ _____

8. $84\% =$ _____

9. $65\% =$ _____

10. $89\% =$ _____

11. $48\% =$ _____

12. $51\% =$ _____

13. $54\% =$ _____

14. $92\% =$ _____

Fractions, decimals and percents

Grade 6 Percents and Fractions Worksheet

Fill in the missing numbers; simplify all fractions.

Fraction	Decimal	Percent
$\frac{3}{100}$	0.03	3%
	0.47	
		86%
	0.25	
$\frac{31}{100}$		
		65%
$\frac{33}{100}$		
$\frac{2}{5}$		
	0.05	
		87%
	0.53	

Fractions, decimals and percents

Grade 6 Percents and Fractions Worksheet

Fill in the missing numbers; simplify all fractions.

Fraction	Decimal	Percent
$\frac{3}{100}$	0.03	3%
		11%
	0.42	
$\frac{33}{50}$		
$\frac{17}{100}$		
	0.09	
$\frac{3}{4}$		
	0.13	
		91%
		80%
$\frac{71}{100}$		

Fractions, decimals and percents

Grade 6 Percents and Fractions Worksheet

Fill in the missing numbers; simplify all fractions.

Fraction	Decimal	Percent
$\frac{3}{100}$	0.03	3%
$\frac{21}{100}$		
	0.06	
		63%
$\frac{3}{25}$		
	0.48	
		43%
$\frac{1}{50}$		
	0.77	
		82%
$\frac{37}{100}$		



Solve each problem.

1) $\frac{14}{5} \times \frac{12}{5} =$

2) $1\frac{4}{5} \times 1\frac{1}{2} =$

3) $1\frac{1}{3} \times \frac{1}{2} =$

4) $\frac{14}{3} \times 1\frac{1}{2} =$

5) $\frac{2}{3} \times \frac{3}{4} =$

6) $1\frac{1}{2} \times \frac{3}{5} =$

7) $2\frac{1}{3} \times \frac{18}{5} =$

8) $\frac{1}{5} \times 3\frac{1}{4} =$

9) $\frac{3}{4} \times \frac{27}{5} =$

10) $\frac{7}{2} \times \frac{5}{2} =$

11) $\frac{7}{3} \times \frac{14}{4} =$

12) $\frac{1}{2} \times \frac{2}{4} =$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____



Dividing Fractions

Name: _____

Solve each problem.

1) $\frac{1}{4} \div 3\frac{2}{5} =$

2) $\frac{1}{4} \div 5\frac{2}{3} =$

3) $\frac{3}{4} \div 2\frac{1}{2} =$

4) $3\frac{1}{2} \div \frac{4}{5} =$

5) $6\frac{1}{2} \div \frac{3}{5} =$

6) $\frac{2}{5} \div 5\frac{3}{4} =$

7) $8\frac{1}{2} \div \frac{3}{5} =$

8) $9\frac{3}{5} \div 3\frac{1}{2} =$

9) $9\frac{1}{2} \div 8\frac{2}{3} =$

10) $\frac{2}{4} \div \frac{1}{3} =$

11) $\frac{2}{5} \div \frac{1}{2} =$

12) $3\frac{3}{5} \div \frac{1}{3} =$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____