



RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

MATHEMATICS BOOKLET

Level 3-4 Term 2 Week 8

THIS WEEK'S FOCUS

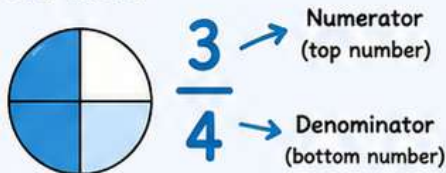
- ✓ Simplifying (Reducing) Fractions
- ✓ Making Equivalent Fractions
- ✓ Multiplying fractions Basics
- ✓ Basic Times Tables practice

FRACTIONS MADE EASY!

SIMPLIFYING FRACTIONS, HCF, LCM & EQUIVALENT FRACTIONS

WHAT IS A FRACTION?

A fraction shows parts of a whole.



This means 3 parts out of 4 equal parts.

WHY SIMPLIFY FRACTIONS?

- ★ Makes fractions easier to read.
- ★ Easier to compare.
- ★ Easier to calculate.
- ★ Easier to understand.

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

Same amount, but simpler!



SIMPLIFYING FRACTIONS

Divide the numerator and denominator by the same number until you cannot anymore.

Example:

$$\frac{6}{8} \xrightarrow{\div 2} \frac{3}{4}$$

$$6 \div 2 = 3 \quad \text{and} \quad 8 \div 2 = 4$$

EASY TIP!

If both numbers are EVEN, divide by 2 first!



Keep dividing by 2 until you cannot.

Example:

$$\frac{8}{12} \xrightarrow{\div 2} \frac{4}{6} \xrightarrow{\div 2} \frac{2}{3}$$

Answer: $\frac{2}{3}$

HIGHEST COMMON FACTOR (HCF)

The biggest number that divides into BOTH numbers.

Example: Find the HCF of 12 and 18.

Factors of 12:

1, 2, 3, 4, **6**, 12

Factors of 18:

1, 2, 3, **6**, 9, 18

$$\text{HCF} = 6$$

Using HCF to Simplify

$$\frac{12}{18} \xrightarrow{\div 6} \frac{2}{3}$$

$$12 \div 6 = 2 \quad \text{and} \quad 18 \div 6 = 3$$

LOWEST COMMON MULTIPLE (LCM)

The smallest number that both numbers can make.

Example: Find the LCM of 3 and 4.

Multiples of 3:

1, 6, 9, **12**, 15, ...

Multiples of 4:

4, 8, **12**, 16, ...

$$\text{LCM} = 12$$

Tips:

- Skip count to find multiples.
- LCM is the first number they both share.

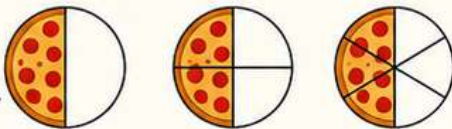


EQUIVALENT FRACTIONS

Equivalent fractions are equal fractions that look different. They show the SAME amount!

PIZZA EXAMPLE

Same pizza, different cuts, same amount eaten!



$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$$

HOW TO CREATE EQUIVALENT FRACTIONS

Multiply the numerator and denominator by the SAME number.

$$\frac{1}{2} = \frac{?}{6}$$

$$2 \times 3 = 6$$

$$1 \times 3 = 3$$

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

$$\frac{1}{2} = \frac{?}{18}$$

$$2 \times 9 = 18$$

$$1 \times 9 = 9$$

$$\frac{1}{2} = \frac{9}{18}$$



IMPORTANT RULE

Whatever you do to the denominator, you MUST do to the numerator too!

To simplify:

DIVIDE both. \div

To make equivalent fractions:

MULTIPLY both. \times



Keep it FAIR!

✦ MULTIPLYING & DIVIDING FRACTIONS ✦

1. MULTIPLYING FRACTIONS

Rule:

- Multiply the numerators.
- Multiply the denominators.
- Simplify if possible.

$$\frac{2}{4} \times \frac{3}{7}$$

1 Multiply numerators

$$2 \times 3 = 6$$

2 Multiply denominators

$$4 \times 7 = 28$$

3 Simplify

$$\frac{6}{28} = \frac{3}{14}$$

Answer: $\frac{3}{14}$

2. CROSS-SIMPLIFICATION

Cross-simplification means simplifying numbers diagonally before multiplying.

$$\frac{2}{9} \times \frac{3}{8}$$

Original:

$$\frac{2}{9} \times \frac{3}{8}$$

Cross-simplify:

$$\frac{1}{9} \times \frac{3}{8}$$

Becomes:

$$\frac{1}{3} \times \frac{1}{4}$$

Multiply: $1 \times 1 = 1$
 $3 \times 4 = 12$

Answer: $\frac{1}{12}$

3. MULTIPLYING MIXED NUMBERS

Step 1: Convert mixed number to improper fraction.

$$1\frac{1}{2} \times \frac{4}{9}$$

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

Now: $\frac{3}{2} \times \frac{4}{9}$

Step 2: Cross-simplify.

$$\frac{1}{3} \times \frac{2}{9}$$

Becomes: $\frac{1}{1} \times \frac{2}{3}$

Step 3: Multiply.

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

$$1 \times 2 = 2$$

$$1 \times 3 = 3$$

Answer: $\frac{2}{3}$

4. DIVIDING FRACTIONS

Rule:

- 1 Keep the first fraction.
- 2 Change the division sign to multiplication.
- 3 Flip the second fraction.
- 4 Multiply.
- 5 Simplify if needed.

$$\frac{2}{5} \div \frac{3}{4}$$

1 Keep

$$\frac{2}{5}$$

2 Change

$$\frac{2}{5} \times$$

3 Flip

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

4 Multiply:

$$2 \times 4 = 8$$

$$5 \times 3 = 15$$

Answer: $\frac{8}{15}$

5. DIVIDING FRACTIONS WITH CROSS-SIMPLIFICATION

Example:

$$\frac{4}{7} \div \frac{2}{9}$$

1 Keep, change, flip

$$\frac{4}{7} \times \frac{9}{2}$$

2 Cross-simplify:

$$\frac{4}{7} \times \frac{9}{2}$$

Becomes:

$$\frac{2}{7} \times \frac{9}{1}$$

3 Multiply:

$$2 \times 9 = 18$$

$$7 \times 1 = 7$$

Answer: $\frac{18}{7}$
or $2\frac{4}{7}$

QUICK SUMMARY



MULTIPLYING FRACTIONS

- Multiply top \times top
- Multiply bottom \times bottom
- Simplify



DIVIDING FRACTIONS

- Keep
- Change
- Flip
- Multiply
- Simplify



CROSS-SIMPLIFICATION

- Simplify diagonally before multiplying
- Makes calculations easier!



Solve each problem.

$2 \times 1 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$

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Solve each problem.

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Solve each problem.

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Solve each problem.

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Reduce each fraction as much as possible.

Ex) $\frac{50}{60} = \frac{5}{6}$

1) $\frac{35}{42} = \text{--}$

2) $\frac{49}{56} = \text{--}$

3) $\frac{18}{24} = \text{--}$

4) $\frac{2}{8} = \text{--}$

5) $\frac{12}{18} = \text{--}$

6) $\frac{10}{16} = \text{--}$

7) $\frac{3}{12} = \text{--}$

8) $\frac{7}{21} = \text{--}$

9) $\frac{10}{15} = \text{--}$

10) $\frac{9}{54} = \text{--}$

11) $\frac{16}{24} = \text{--}$

12) $\frac{10}{60} = \text{--}$

13) $\frac{9}{24} = \text{--}$

14) $\frac{35}{56} = \text{--}$

15) $\frac{6}{18} = \text{--}$

16) $\frac{9}{12} = \text{--}$

17) $\frac{30}{80} = \text{--}$

18) $\frac{4}{16} = \text{--}$

19) $\frac{45}{72} = \text{--}$

20) $\frac{4}{6} = \text{--}$

Answers

Ex. $\frac{5}{6}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Reduce each fraction as much as possible.

Ex) $\frac{18}{24} = \frac{3}{4}$

1) $\frac{6}{48} = \text{ -- }$

2) $\frac{70}{80} = \text{ -- }$

3) $\frac{10}{16} = \text{ -- }$

4) $\frac{4}{6} = \text{ -- }$

5) $\frac{8}{32} = \text{ -- }$

6) $\frac{25}{30} = \text{ -- }$

7) $\frac{7}{42} = \text{ -- }$

8) $\frac{10}{30} = \text{ -- }$

9) $\frac{12}{18} = \text{ -- }$

10) $\frac{21}{28} = \text{ -- }$

11) $\frac{6}{18} = \text{ -- }$

12) $\frac{28}{32} = \text{ -- }$

13) $\frac{4}{12} = \text{ -- }$

14) $\frac{12}{16} = \text{ -- }$

15) $\frac{35}{40} = \text{ -- }$

16) $\frac{2}{4} = \text{ -- }$

17) $\frac{14}{21} = \text{ -- }$

18) $\frac{2}{6} = \text{ -- }$

19) $\frac{4}{16} = \text{ -- }$

20) $\frac{10}{12} = \text{ -- }$

Answers

Ex. $\frac{3}{4}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Reduce each fraction as much as possible.

Ex) $\frac{35}{56} = \frac{5}{8}$

1) $\frac{6}{36} = -$

2) $\frac{16}{24} = -$

3) $\frac{2}{6} = -$

4) $\frac{56}{64} = -$

5) $\frac{2}{12} = -$

6) $\frac{10}{40} = -$

7) $\frac{8}{24} = -$

8) $\frac{27}{72} = -$

9) $\frac{9}{54} = -$

10) $\frac{27}{36} = -$

11) $\frac{20}{32} = -$

12) $\frac{7}{14} = -$

13) $\frac{3}{24} = -$

14) $\frac{2}{16} = -$

15) $\frac{18}{48} = -$

16) $\frac{30}{48} = -$

17) $\frac{9}{12} = -$

18) $\frac{9}{36} = -$

19) $\frac{12}{18} = -$

20) $\frac{15}{18} = -$

Answers

Ex. $\frac{5}{8}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Reduce each fraction as much as possible.

Ex) $\frac{7}{56} = \frac{1}{8}$

1) $\frac{30}{80} = \text{--}$

2) $\frac{12}{32} = \text{--}$

3) $\frac{14}{21} = \text{--}$

4) $\frac{49}{56} = \text{--}$

5) $\frac{6}{9} = \text{--}$

6) $\frac{9}{36} = \text{--}$

7) $\frac{10}{30} = \text{--}$

8) $\frac{8}{24} = \text{--}$

9) $\frac{4}{8} = \text{--}$

10) $\frac{4}{12} = \text{--}$

11) $\frac{27}{36} = \text{--}$

12) $\frac{4}{6} = \text{--}$

13) $\frac{30}{40} = \text{--}$

14) $\frac{27}{72} = \text{--}$

15) $\frac{3}{9} = \text{--}$

16) $\frac{15}{40} = \text{--}$

17) $\frac{12}{18} = \text{--}$

18) $\frac{21}{56} = \text{--}$

19) $\frac{9}{18} = \text{--}$

20) $\frac{10}{16} = \text{--}$

Answers

Ex. $\frac{1}{8}$

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) $\frac{4}{10} = \frac{24}{60}$

1) $\frac{3}{7} = \frac{\quad}{63}$

2) $\frac{2}{7} = \frac{\quad}{56}$

3) $\frac{5}{6} = \frac{20}{\quad}$

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

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

6) $\frac{1}{6} = \frac{\quad}{18}$

7) $\frac{1}{2} = \frac{\quad}{12}$

8) $\frac{6}{7} = \frac{\quad}{63}$

9) $\frac{1}{5} = \frac{8}{\quad}$

10) $\frac{4}{9} = \frac{16}{\quad}$

11) $\frac{4}{6} = \frac{40}{\quad}$

12) $\frac{8}{10} = \frac{\quad}{100}$

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

14) $\frac{4}{7} = \frac{\quad}{14}$

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

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

17) $\frac{1}{5} = \frac{\quad}{30}$

18) $\frac{2}{4} = \frac{18}{\quad}$

19) $\frac{8}{9} = \frac{\quad}{63}$

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

Answers

Ex. **60**

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) $\frac{4}{6} = \frac{20}{30}$

1) $\frac{1}{6} = \frac{4}{\quad}$

2) $\frac{8}{10} = \frac{\quad}{50}$

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

4) $\frac{1}{2} = \frac{\quad}{18}$

5) $\frac{1}{8} = \frac{6}{\quad}$

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

7) $\frac{3}{7} = \frac{\quad}{56}$

8) $\frac{8}{10} = \frac{64}{\quad}$

9) $\frac{1}{6} = \frac{\quad}{42}$

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

11) $\frac{4}{6} = \frac{\quad}{48}$

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

13) $\frac{5}{6} = \frac{35}{\quad}$

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

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

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

17) $\frac{6}{10} = \frac{24}{\quad}$

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

19) $\frac{1}{4} = \frac{\quad}{28}$

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

AnswersEx. **30**

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) $\frac{6}{7} = \frac{18}{21}$

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

2) $\frac{5}{8} = \frac{20}{\quad}$

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

4) $\frac{3}{8} = \frac{\quad}{64}$

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

6) $\frac{4}{10} = \frac{16}{\quad}$

7) $\frac{4}{8} = \frac{40}{\quad}$

8) $\frac{5}{9} = \frac{10}{\quad}$

9) $\frac{5}{9} = \frac{\quad}{36}$

10) $\frac{7}{9} = \frac{70}{\quad}$

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

12) $\frac{6}{7} = \frac{\quad}{63}$

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

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

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

16) $\frac{2}{8} = \frac{\quad}{32}$

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

18) $\frac{7}{9} = \frac{\quad}{36}$

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

20) $\frac{5}{8} = \frac{50}{\quad}$

Answers

Ex. 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) $\frac{2}{7} = \frac{4}{14}$

1) $\frac{2}{10} = \frac{\quad}{70}$

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

3) $\frac{1}{7} = \frac{3}{\quad}$

4) $\frac{1}{7} = \frac{10}{\quad}$

5) $\frac{3}{4} = \frac{\quad}{20}$

6) $\frac{5}{9} = \frac{\quad}{72}$

7) $\frac{8}{10} = \frac{64}{\quad}$

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

9) $\frac{7}{9} = \frac{\quad}{36}$

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

11) $\frac{4}{9} = \frac{32}{\quad}$

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

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

14) $\frac{7}{9} = \frac{35}{\quad}$

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

16) $\frac{2}{5} = \frac{\quad}{40}$

17) $\frac{3}{9} = \frac{\quad}{90}$

18) $\frac{2}{7} = \frac{\quad}{56}$

19) $\frac{4}{9} = \frac{\quad}{90}$

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

Answers

Ex. 14

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Solve each problem.

Ex) $\frac{1}{10} \times 6 =$ _____

1) $\frac{1}{3} \times 5 =$ _____

2) $\frac{1}{5} \times 9 =$ _____

3) $8 \times \frac{1}{12} =$ _____

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

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

6) $\frac{1}{4} \times 7 =$ _____

7) $\frac{1}{10} \times 4 =$ _____

8) $\frac{1}{4} \times 6 =$ _____

9) $5 \times \frac{1}{6} =$ _____

10) $6 \times \frac{1}{6} =$ _____

11) $\frac{1}{12} \times 4 =$ _____

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

13) $\frac{1}{6} \times 8 =$ _____

14) $10 \times \frac{1}{4} =$ _____

15) $9 \times \frac{1}{3} =$ _____

16) $8 \times \frac{1}{8} =$ _____

17) $\frac{1}{12} \times 9 =$ _____

18) $6 \times \frac{1}{8} =$ _____

19) $3 \times \frac{1}{3} =$ _____

Answers

Ex. $\frac{6}{10}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____



Solve each problem.

Ex) $\frac{1}{5} \times 5 =$ _____

1) $9 \times \frac{1}{3} =$ _____

2) $4 \times \frac{1}{6} =$ _____

3) $\frac{1}{8} \times 8 =$ _____

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

5) $7 \times \frac{1}{10} =$ _____

6) $3 \times \frac{1}{4} =$ _____

7) $\frac{1}{4} \times 6 =$ _____

8) $6 \times \frac{1}{12} =$ _____

9) $\frac{1}{6} \times 2 =$ _____

10) $6 \times \frac{1}{10} =$ _____

11) $10 \times \frac{1}{12} =$ _____

12) $\frac{1}{3} \times 10 =$ _____

13) $2 \times \frac{1}{10} =$ _____

14) $8 \times \frac{1}{4} =$ _____

15) $\frac{1}{8} \times 7 =$ _____

16) $3 \times \frac{1}{12} =$ _____

17) $8 \times \frac{1}{12} =$ _____

18) $\frac{1}{8} \times 3 =$ _____

19) $\frac{1}{6} \times 5 =$ _____

Answers

Ex. $\frac{5}{5}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____



Solve each problem.

Ex) $\frac{1}{3} \times 9 =$ _____

1) $\frac{1}{6} \times 4 =$ _____

2) $3 \times \frac{1}{10} =$ _____

3) $10 \times \frac{1}{10} =$ _____

4) $\frac{1}{8} \times 8 =$ _____

5) $\frac{1}{12} \times 6 =$ _____

6) $5 \times \frac{1}{10} =$ _____

7) $7 \times \frac{1}{12} =$ _____

8) $\frac{1}{8} \times 5 =$ _____

9) $4 \times \frac{1}{3} =$ _____

10) $5 \times \frac{1}{3} =$ _____

11) $\frac{1}{4} \times 4 =$ _____

12) $\frac{1}{10} \times 6 =$ _____

13) $8 \times \frac{1}{6} =$ _____

14) $\frac{1}{5} \times 8 =$ _____

15) $9 \times \frac{1}{10} =$ _____

16) $\frac{1}{8} \times 3 =$ _____

17) $\frac{1}{6} \times 2 =$ _____

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

19) $\frac{1}{3} \times 8 =$ _____

Answers

Ex. $3\frac{0}{3}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____



Solve each problem.

Ex) $\frac{1}{10} \times 10 =$ _____

1) $\frac{1}{6} \times 6 =$ _____

2) $\frac{1}{4} \times 8 =$ _____

3) $3 \times \frac{1}{5} =$ _____

4) $\frac{1}{4} \times 6 =$ _____

5) $8 \times \frac{1}{10} =$ _____

6) $6 \times \frac{1}{12} =$ _____

7) $4 \times \frac{1}{8} =$ _____

8) $10 \times \frac{1}{4} =$ _____

9) $\frac{1}{3} \times 7 =$ _____

10) $7 \times \frac{1}{12} =$ _____

11) $\frac{1}{8} \times 5 =$ _____

12) $\frac{1}{8} \times 8 =$ _____

13) $\frac{1}{6} \times 5 =$ _____

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

15) $\frac{1}{4} \times 2 =$ _____

16) $\frac{1}{3} \times 9 =$ _____

17) $3 \times \frac{1}{3} =$ _____

18) $10 \times \frac{1}{12} =$ _____

19) $10 \times \frac{1}{8} =$ _____

Answers

Ex. $\frac{10}{10}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____