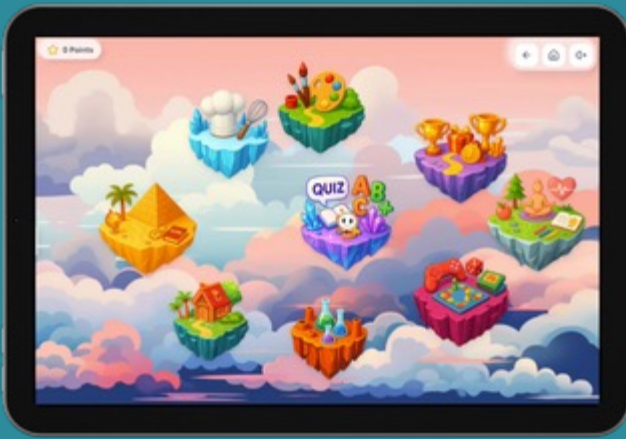


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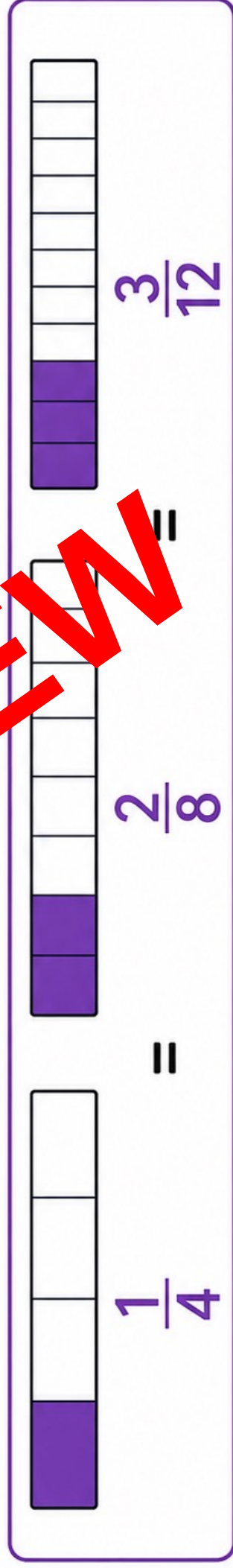
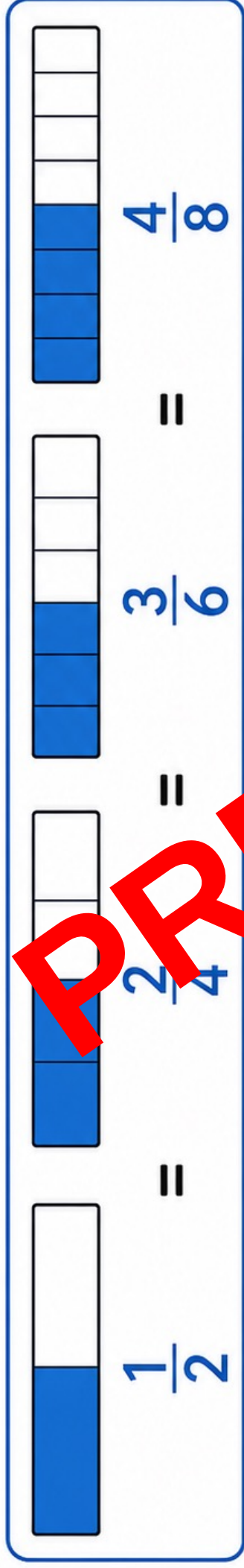


## Equivalent Fractions Using Related Denominators – Year 4

| Table of Contents                                              |  |
|----------------------------------------------------------------|--|
| Presentation: Equivalent Fractions Using Related Denominators  |  |
| Equivalent Fractions Display & Reference Mat                   |  |
| Fraction Wall Folding Activity & Strips                        |  |
| Pizza Fraction Puzzle                                          |  |
| Fraction Match Game                                            |  |
| Visual Models Worksheet                                        |  |
| Fraction Families Worksheet                                    |  |
| Scale Both Numbers Worksheet                                   |  |
| Use a Fraction Wall Worksheet                                  |  |
| Explain Your Thinking Worksheet                                |  |
| Quiz: Equivalent Fractions Using Related Denominators          |  |
| Assessment: Equivalent Fractions Assessment                    |  |
| Rubric: Equivalent Fractions Using Related Denominators Rubric |  |



# Equivalent Fractions



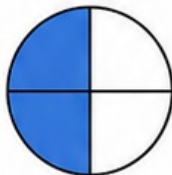
Multiply or divide the numerator and denominator by the same number.



# Equivalent Fractions Reference Mat

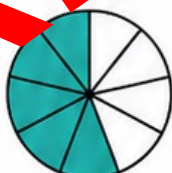
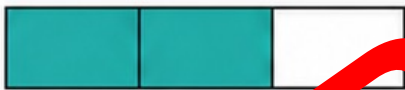


## 1 Same value



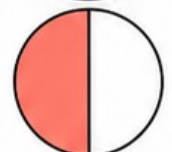
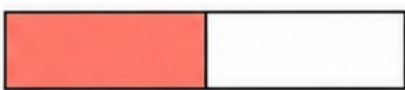
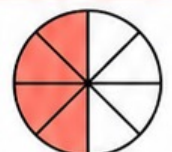
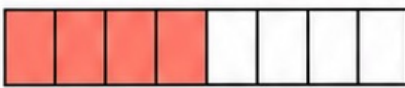
$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$$

## 2 Scale both numbers



$$\frac{2}{3} \times \frac{3}{3} = \frac{6}{9}$$

## 3 Check with a model



$$\frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$$

Equivalent fractions name the same amount.

# Build a Fraction Wall

- 1 Cut out each strip.
- 2 Fold the strips into equal parts.
- 3 Label the parts.
- 4 Line up the strips to find fraction families.



**Whole**



**Halves**



**Thirds**



**Quarters**



**Sixths**



**Eighths**



**Twelfths**

# Fraction Wall Strips

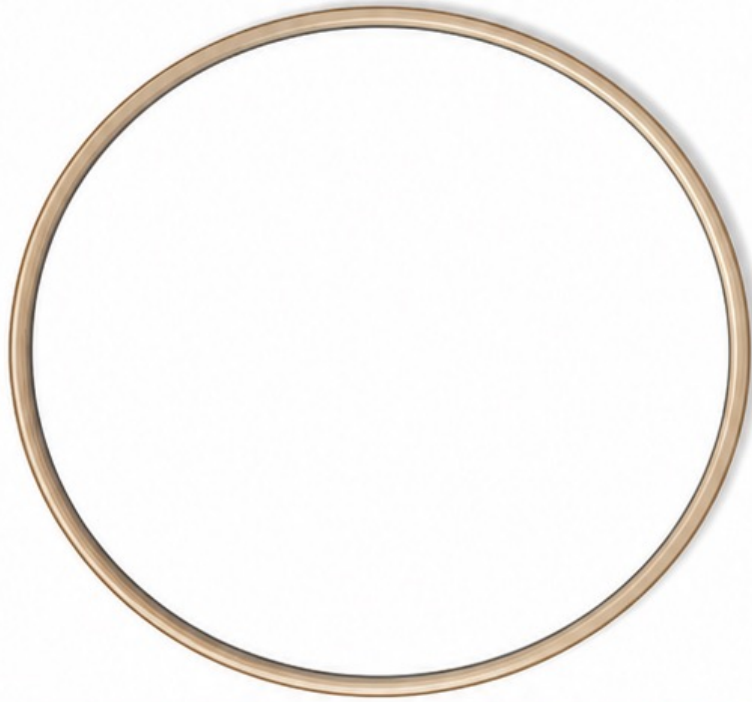




# Pizza Fraction Puzzle



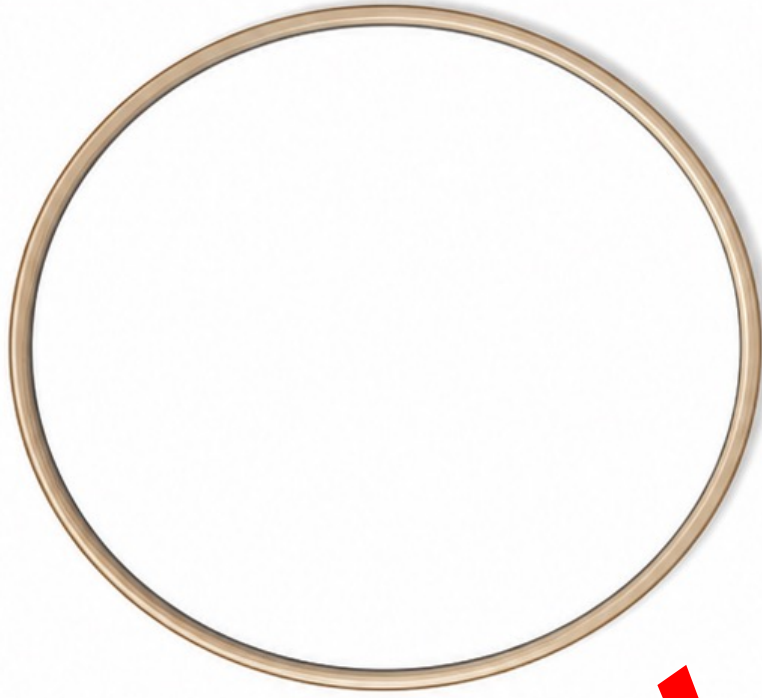
Build each whole pizza, then match pieces that cover the same amount.



• 2 halves •



• 4 quarters •



• 8 eighths •

**PREVIEW**

# Pizza Fraction Puzzle Pieces



# Fraction Match



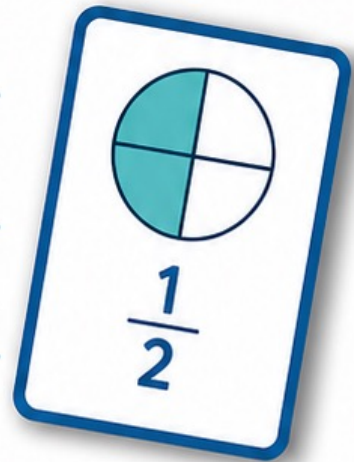
Players: 2-4



You need: two game boards,  
fraction cards, 12 counters per player

## How to play

- 1 Shuffle the cards.
- 2 Turn over one card.
- 3 Cover an equivalent fraction on your board.
- 4 If there is no match, return the card.
- 5 First player to cover a row wins.



# Fraction Match - Board A

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{1}{4}$$

$$\frac{2}{4}$$

$$\frac{2}{6}$$

$$\frac{2}{8}$$

$$\frac{3}{6}$$

$$\frac{3}{9}$$

$$\frac{3}{12}$$

$$\frac{4}{8}$$

$$\frac{4}{12}$$

$$\frac{1}{5}$$

PREVIEW

# Fraction Match - Board B

$$\frac{2}{10}$$

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

$$\frac{6}{10}$$

$$\frac{4}{5}$$

$$\frac{8}{10}$$

$$\frac{2}{3}$$

$$\frac{4}{6}$$

$$\frac{6}{9}$$

$$\frac{3}{4}$$

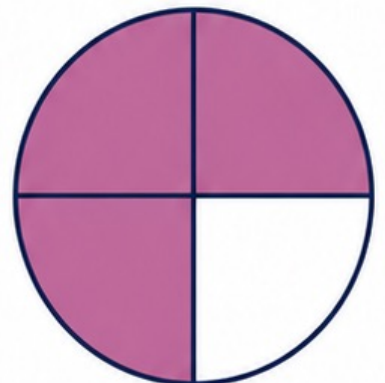
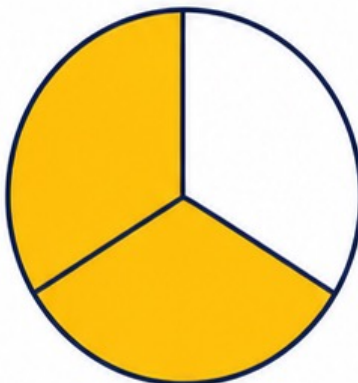
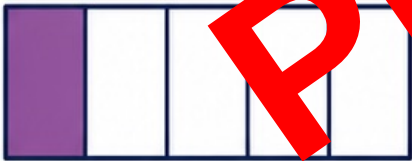
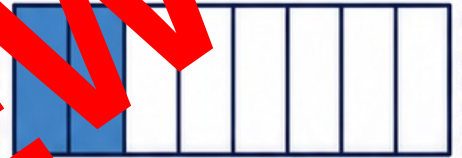
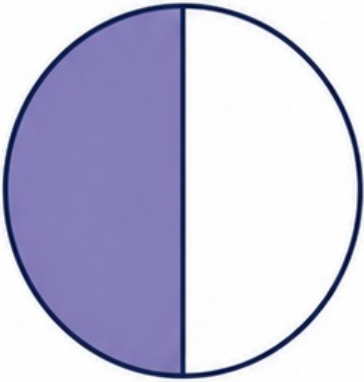
$$\frac{6}{8}$$

$$\frac{5}{6}$$

$$\frac{10}{12}$$

PREVIEW

# Fraction Match Cards

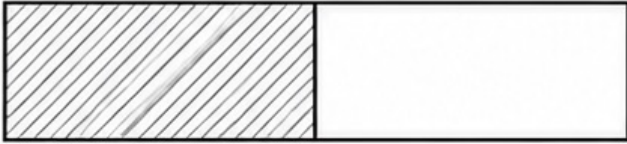


PREVIEW

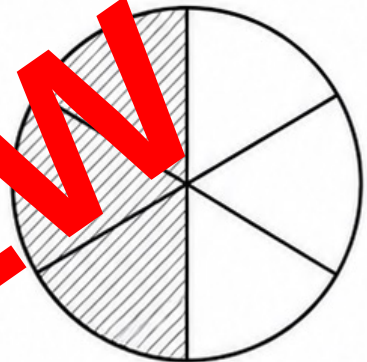
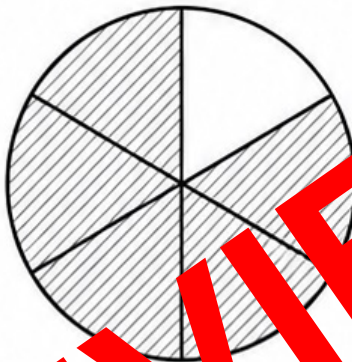
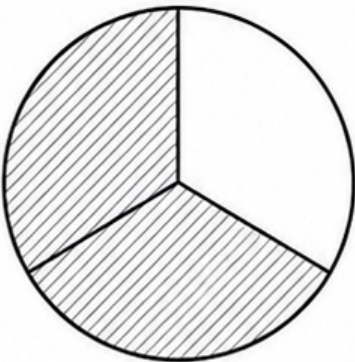
Name: \_\_\_\_\_

# Equivalent Fractions: Visual Models

1. Shade the second bar to show a fraction equivalent to  $\frac{1}{2}$ .



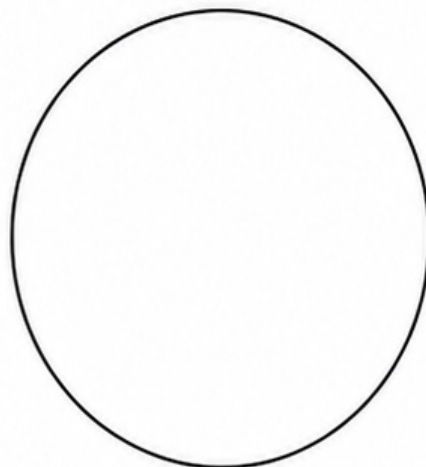
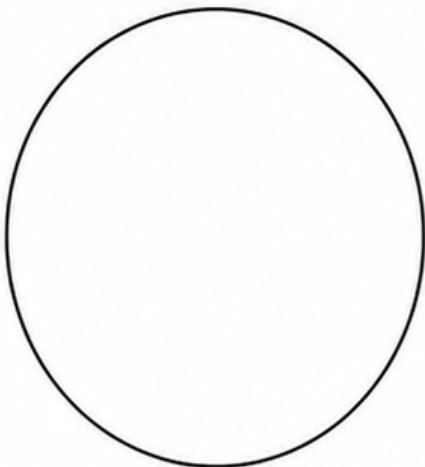
2. Circle the two models that have the same value.



3. Complete:  $\frac{2}{4} = \frac{\quad}{8}$

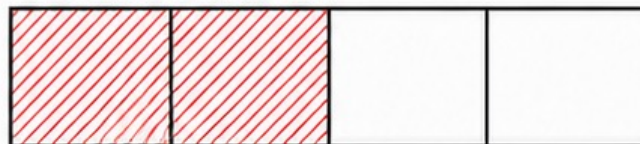
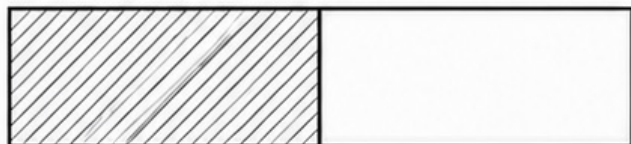
4. Complete:  $\frac{1}{3} = \frac{\quad}{6}$

5. Draw a model to show why  $\frac{3}{6} = \frac{1}{2}$ .

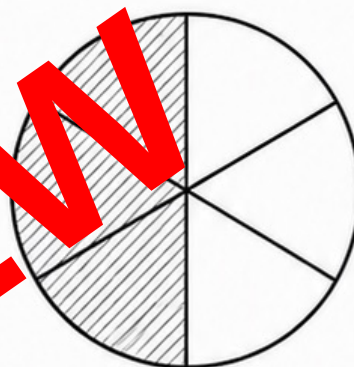
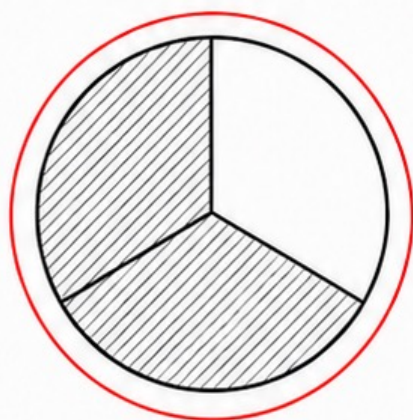


# Equivalent Fractions: Visual Models

1. Shade the second bar to show a fraction equivalent to  $\frac{1}{2}$ .



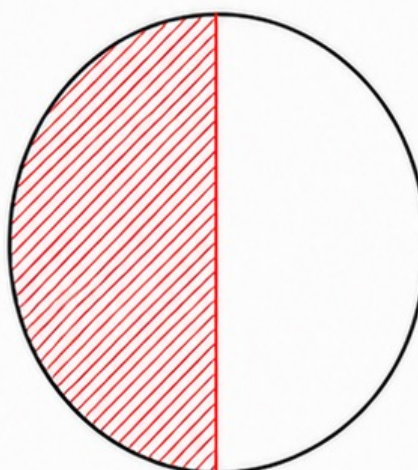
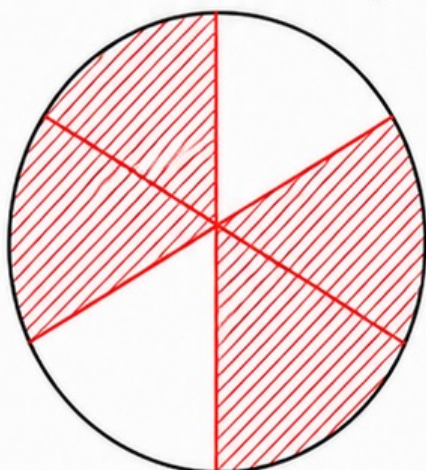
2. Circle the two models that have the same value.



3. Complete:  $\frac{2}{4} = \frac{4}{8}$

4. Complete:  $\frac{1}{3} = \frac{2}{6}$

5. Draw a model to show why  $\frac{3}{6} = \frac{1}{2}$ .



# Fraction Families

Name: \_\_\_\_\_

\_\_\_\_\_ = \_\_\_\_\_

1. Complete:  $\frac{1}{2} = \frac{2}{4} = \frac{\quad}{6} = \frac{4}{8}$

2. Complete:  $\frac{1}{3} = \frac{\quad}{6} = \frac{3}{9} = \frac{4}{12}$

3. Circle the fractions equivalent to  $\frac{1}{3}$ :  $\frac{2}{5}$ ,  $\frac{5}{8}$ ,  $\frac{3}{12}$ ,  $\frac{4}{12}$

4. Draw one model to represent  $\frac{2}{3}$ .

5. Write two fractions equivalent to  $\frac{3}{4}$ .

# Fraction Families

## ANSWERS

\_\_\_\_\_ = \_\_\_\_\_

1. Complete:  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$

2. Complete:  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$

3. Circle the fractions equivalent to  $\frac{1}{3}$ :  $\frac{2}{5}$ ,  $\frac{3}{8}$ ,  $\frac{3}{12}$ ,  $\frac{4}{12}$

4. Draw one model to represent  $\frac{2}{3}$ .



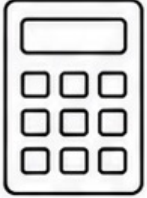
5. Write two fractions equivalent to  $\frac{3}{4}$ .

$$\frac{6}{8}$$

$$\frac{9}{12}$$

# Scale Both Numbers

Name: \_\_\_\_\_



Multiply or divide the numerator  
and denominator by the same number.

$$\frac{a}{b} \rightarrow \frac{a \times k}{b \times k}$$

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

5.  $\frac{6}{12} = \frac{\quad}{2}$

2.  $\frac{2}{3} = \frac{\quad}{9}$

6.  $\frac{9}{12} = \frac{\quad}{4}$

3.  $\frac{3}{4} = \frac{\quad}{8}$

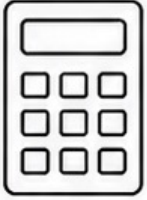
7.  $\frac{4}{10} = \frac{\quad}{5}$

4.  $\frac{2}{5} = \frac{\quad}{20}$

8.  $\frac{8}{12} = \frac{\quad}{3}$

# Scale Both Numbers

ANSWERS \_\_\_\_\_



Multiply or divide the numerator and denominator by the same number.

$$\frac{a}{b} \rightarrow \frac{a \times k}{b \times k}$$

1.  $\frac{1}{2} = \frac{4}{8}$  (multiplied by 4)

5.  $\frac{6}{12} = \frac{1}{2}$  (divided by 6)

2.  $\frac{2}{3} = \frac{6}{9}$  (multiplied by 3)

6.  $\frac{9}{12} = \frac{3}{4}$  (divided by 3)

3.  $\frac{3}{4} = \frac{6}{8}$  (multiplied by 2)

7.  $\frac{4}{10} = \frac{2}{5}$  (divided by 2)

4.  $\frac{2}{5} = \frac{8}{20}$  (multiplied by 4)

8.  $\frac{8}{12} = \frac{2}{3}$  (divided by 4)

# Use a Fraction Wall



Name: \_\_\_\_\_

|          |                |                |                |                |                |                |                |                |                |                |                |                |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Whole    | 1              |                |                |                |                |                |                |                |                |                |                |                |
| Halves   | $\frac{1}{2}$  |                |                |                |                |                | $\frac{1}{2}$  |                |                |                |                |                |
| Thirds   | $\frac{1}{3}$  |                |                |                | $\frac{1}{3}$  |                |                |                | $\frac{1}{3}$  |                |                |                |
| Quarters | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                |
| Sixths   | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                |
| Eighths  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  |
| Twelfths | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

1. How many sixths equal one half? \_\_\_\_\_

2. How many twelfths equal one third? \_\_\_\_\_

3. Which is greater  $\frac{3}{6}$  or  $\frac{3}{4}$ ? \_\_\_\_\_

4. Write two fractions equivalent to  $\frac{1}{4}$ . \_\_\_\_\_ and \_\_\_\_\_

5. Complete:  $\frac{2}{3} = \frac{\quad}{12}$

6. Explain how the wall proves  $\frac{4}{8} = \frac{1}{2}$ .

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# Use a Fraction Wall



## ANSWERS \_\_\_\_\_

|          |                |                |                |                |                |                |                |                |                |                |                |                |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Whole    | 1              |                |                |                |                |                |                |                |                |                |                |                |
| Halves   | $\frac{1}{2}$  |                |                |                |                |                | $\frac{1}{2}$  |                |                |                |                |                |
| Thirds   | $\frac{1}{3}$  |                |                |                | $\frac{1}{3}$  |                |                |                | $\frac{1}{3}$  |                |                |                |
| Quarters | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                | $\frac{1}{4}$  |                |                |
| Sixths   | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                | $\frac{1}{6}$  |                |
| Eighths  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  | $\frac{1}{8}$  |
| Twelfths | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

1. How many sixths equal one half? 3 sixths

2. How many twelfths equal one third? 4 twelfths

3. Which is greater  $\frac{3}{6}$  or  $\frac{3}{4}$ ?  $\frac{3}{4}$

4. Write two fractions equivalent to  $\frac{1}{4}$ .  $\frac{2}{8}$  and  $\frac{3}{12}$

5. Complete:  $\frac{2}{3} = \frac{8}{12}$

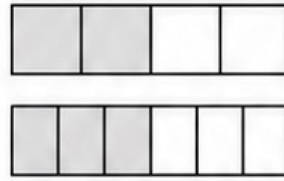
6. Explain how the wall proves  $\frac{4}{8} = \frac{1}{2}$ .

Four of eight equal parts cover the same half as one of two equal parts.

# Explain Your Thinking

Name: \_\_\_\_\_

1. Are  $\frac{2}{4}$  and  $\frac{3}{6}$  equivalent? Justify your answer.



If two fractions are equivalent, they show the same amount of the whole.

2. Mia says  $\frac{2}{3} = \frac{4}{9}$ . Explain the error and correct it.

Equivalent fractions represent the same amount, not just different numbers.

3. Which fraction is equivalent to  $\frac{5}{10}$ ,  $\frac{6}{15}$  or  $\frac{9}{10}$ ? Explain.



4. A recipe uses  $\frac{1}{2}$  cup of oats. Complete:  $\frac{1}{2} = \frac{\quad}{8}$  cup.



5. Create a different fraction equal to  $\frac{4}{6}$ . Show the scale factor.

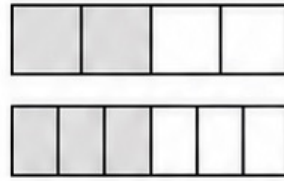
Multiply or divide the numerator and denominator by the same number.

PREVIEW

# Explain Your Thinking

**ANSWERS:** \_\_\_\_\_

1. Are  $\frac{2}{4}$  and  $\frac{3}{6}$  equivalent? Justify your answer.



If two fractions are equivalent, they show the same amount of the whole.

Yes. Both fractions are equal to  $\frac{1}{2}$ .

2. Mia says  $\frac{2}{3} = \frac{4}{9}$ . Explain the error and correct it.

Both numbers must be multiplied by 2:  $\frac{2}{3} = \frac{4}{6}$ .

Equivalent fractions represent the same amount, not just different numbers.

3. Which fraction is equivalent to  $\frac{3}{5}$ :  $\frac{6}{10}$ ,  $\frac{6}{15}$  or  $\frac{9}{10}$ ? Explain.



$\frac{6}{10}$ , because  $3 \times 2 = 6$  and  $5 \times 2 = 10$ .

4. A recipe uses  $\frac{1}{2}$  cup of oats. Complete:  $\frac{1}{2} = \frac{\quad}{8}$  cup.

$\frac{1}{2} = \frac{4}{8}$  cup.



5. Create a different fraction equal to  $\frac{4}{6}$ . Show the scale factor.

$\frac{8}{12}$ ; multiply by  $\frac{2}{2}$ .

Multiply or divide the numerator and denominator by the same number.

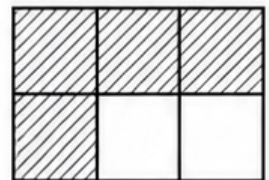
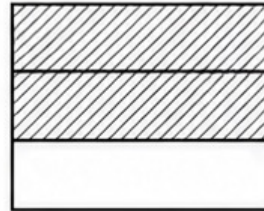
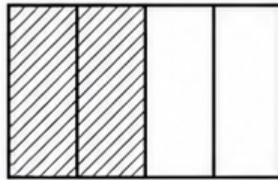
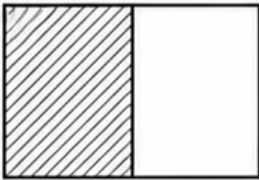
# Equivalent Fractions Assessment

## Page 1 - Models and Number Relationships

Name: \_\_\_\_\_

1. Draw a line to match two pairs of equivalent models.

(2 marks)



2. Complete:  $\frac{1}{2} = \frac{\quad}{8}$

(1 mark)

3. Complete:  $\frac{2}{3} = \frac{\quad}{12}$

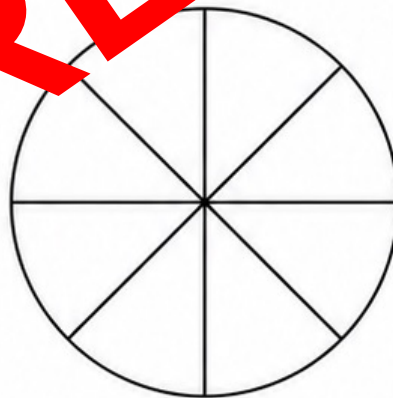
(1 mark)

4. Circle all fractions equivalent to  $\frac{3}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{2}$ ,  $\frac{12}{12}$ ,  $\frac{12}{16}$ .

(3 marks)

5. Shade  $\frac{4}{8}$  of the circle.

(1 mark)



6. Explain the factor used to change  $\frac{2}{5}$  to  $\frac{8}{20}$ .

(4 marks)

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Total: 12 marks

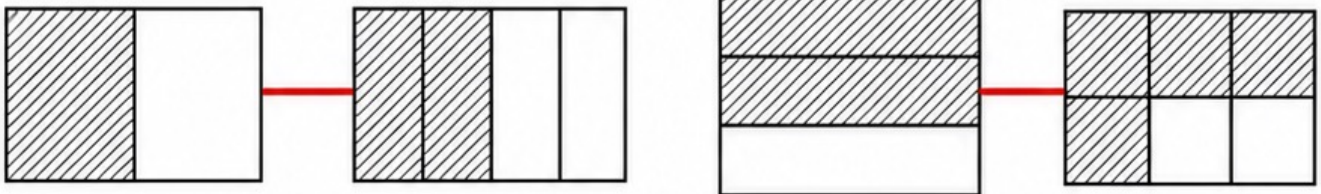
# Equivalent Fractions Assessment

## Page 1 - Models and Number Relationships

### ANSWERS \_\_\_\_\_

1. Draw a line to match two pairs of equivalent models.

(2 marks)



2. Complete:  $\frac{1}{2} = \frac{4}{8}$

(1 mark)

3. Complete:  $\frac{2}{3} = \frac{8}{12}$

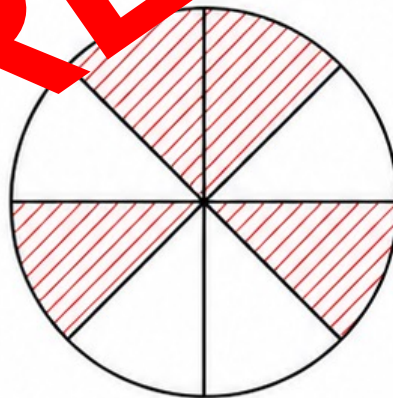
(1 mark)

4. Circle all fractions equivalent to  $\frac{3}{4}$ :  $\frac{3}{8}$ ,  $\frac{3}{4}$ ,  $\frac{12}{16}$ ,  $\frac{12}{12}$ .

(3 marks)

5. Shade  $\frac{4}{8}$  of the circle.

(1 mark)



6. Explain the factor used to change  $\frac{2}{5}$  to  $\frac{8}{20}$ .

(4 marks)

Multiply both numbers by 4:  $2 \times 4 = 8$  and  $5 \times 4 = 20$ .

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Total: 12 marks



# Equivalent Fractions Assessment

## Page 2 - Apply and Explain

Name: \_\_\_\_\_



1. Herbs fill  $\frac{3}{6}$  of a garden bed. Write a simpler equivalent fraction.

(1 mark)

2. Tomatoes are  $\frac{2}{3}$  of 12 seedlings. Complete:  $\frac{2}{3} = \frac{\quad}{12}$ .

(2 marks)

3. Compare  $\frac{4}{8}$  and  $\frac{5}{10}$ . Are they equivalent? Justify your answer.

(2 marks)

4. Create two fractions equivalent to  $\frac{3}{4}$  and explain each scale factor.

(3 marks)

Equivalent fraction 1: \_\_\_\_\_ Scale factor: \_\_\_\_\_

Equivalent fraction 2: \_\_\_\_\_ Scale factor: \_\_\_\_\_





# Equivalent Fractions Assessment

## Page 2 - Apply and Explain



ANSWERS

1. Herbs fill  $\frac{3}{6}$  of a garden bed. Write a simpler equivalent fraction.

(1 mark)

$\frac{1}{2}$

2. Tomatoes are  $\frac{2}{3}$  of 12 seedlings. Complete:  $\frac{2}{3} = \frac{8}{12}$ .

(2 marks)

3. Compare  $\frac{4}{8}$  and  $\frac{5}{10}$ . Are they equivalent? Justify your answer.

(2 marks)

Yes. Both fractions are equal to  $\frac{1}{2}$ .

4. Create two fractions equivalent to  $\frac{3}{4}$  and explain each scale factor.

(3 marks)

Equivalent fraction 1:  $\frac{6}{8}$  Scale factor:  $\times 2 / \times 2$

Equivalent fraction 2:  $\frac{9}{12}$  Scale factor:  $\times 3 / \times 3$

Multiply the numerator and denominator by the same factor.



# Equivalent Fractions Using Related Denominators Rubric

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



| Criteria                        | BEGINNING                                                                           | DEVELOPING                                                                         | ACHIEVING                                                                                          | CONFIDENT                                                                        | EXCEEDING                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Recognises equivalent fractions | Needs support to recognise equivalent fractions; often identifies incorrect pairs.  | Sometimes recognises equivalent fractions with support; errors are common.         | Accurately recognises equivalent fractions using related denominators independently.               | Accurately recognises equivalent fractions in a variety of contexts with ease.   | Accurately recognises equivalent fractions and explains why they are equivalent.        |
| Uses visual models              | Needs support to use visual models; models are often incomplete or inaccurate.      | Uses visual models with support; models sometimes do not show equivalence clearly. | Uses visual models accurately to show equivalent fractions using related denominators.             | Uses visual models flexibly to represent equivalent fractions in different ways. | Creates and explains visual models that generalise how equivalent fractions work.       |
| Generates equivalent fractions  | Needs support to generate equivalent fractions; attempts are inaccurate or missing. | Generates some equivalent fractions with support; patterns are inconsistent.       | Generates equivalent fractions using related denominators accurately independently.                | Generates multiple equivalent fractions flexibly in a variety of situations.     | Generates equivalent fractions and identifies and explains the general rule or pattern. |
| Explains reasoning              | Needs support to explain reasoning; explanations are limited or unclear.            | Provides a basic explanation with support; reasoning is partially clear.           | Explains reasoning clearly, showing how equivalent fractions are found using related denominators. | Explains reasoning clearly and connects it to the visual model or pattern used.  | Explains reasoning thoroughly and justifies with examples and generalisations.          |

# Equivalent Fractions Using Related Denominators



# Learning Focus

Equivalent fractions name the same amount in different ways.

We will use models, number lines and scale factors to prove equivalence.



# What Does Equivalent Mean?

Equivalent fractions:

- use the same whole
- cover the same amount
- can use different numbers of equal parts



## Same Amount, Different Parts

One half and two quarters cover the same amount.

$$1/2 = 2/4$$

The number of parts changes; the value does not.



# Fraction Walls Reveal Families

Line up the rows on a fraction wall.  
Equal lengths reveal equivalent fractions.

$$1/2 = 2/4 = 3/6 = 4/8$$



## Scale Both Numbers

To make an equivalent fraction:

1. Choose a scale factor.
2. Multiply the numerator and denominator by it.

$$2/3 \times 3/3 = 6/9$$



# The One-Half Family

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

Each numerator and denominator has been multiplied  
by the same factor.



# The One-Third Family

$$\frac{1}{3} = \frac{2}{6} \quad \frac{1}{9} = \frac{4}{12}$$

The denominators are related multiples of 3.



# The One-Quarter Family

$$1/4 = 2/8 = 3/12$$

The denominators are related multiples of 4.



## Simplify by Dividing

You can work backwards by dividing both numerator and denominator by the same factor.

$$4/6 \div 2/2 = 2/3$$

$$6/12 \div 6/6 = 1/2$$



# Pizza Fractions

The same half of a pizza can be cut into different numbers  
of equal pieces

$$2/4 = 1/2 = 6/12 = 1/2$$



## Fold to Compare

Fold equal-length strips into halves, quarters, eighths and

twelfths.

Label the creases.

Matching creases show equivalent fractions.



## Watch This Mistake

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

Only the numerator changed, so the value changed.

Correct:  $\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$



## Guided Practice

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

2.  $\frac{2}{3} = \frac{\quad}{12}$

3.  $\frac{3}{4} = \frac{\quad}{8}$

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

5. Is  $\frac{6}{12}$  equivalent to  $\frac{1}{2}$ ?



# Guided Practice Answers

1.  $\frac{3}{6}$

2.  $\frac{8}{12}$

3.  $\frac{6}{8}$

4.  $\frac{2}{5}$

5. Yes. Both fractions equal one half.



# Where Do We Use Them?

Equivalent fractions help us compare and find amounts  
when we:

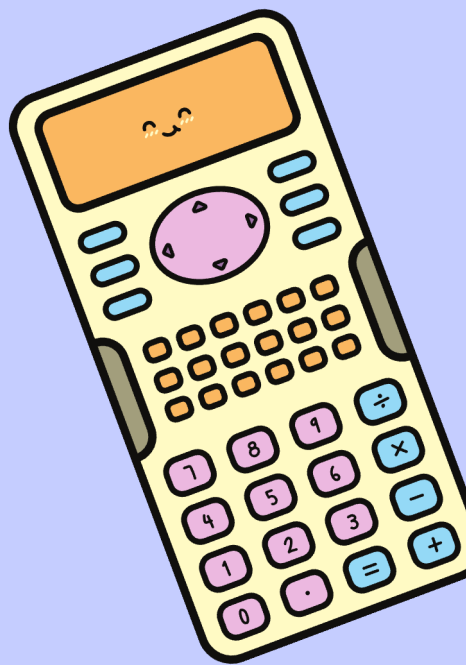
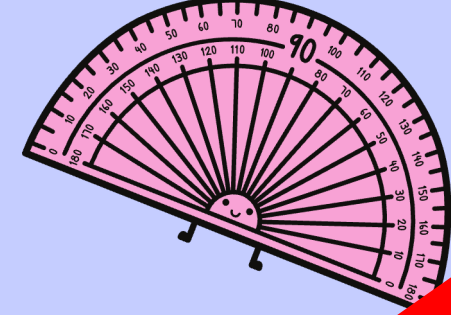
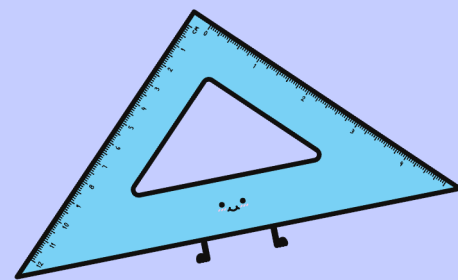
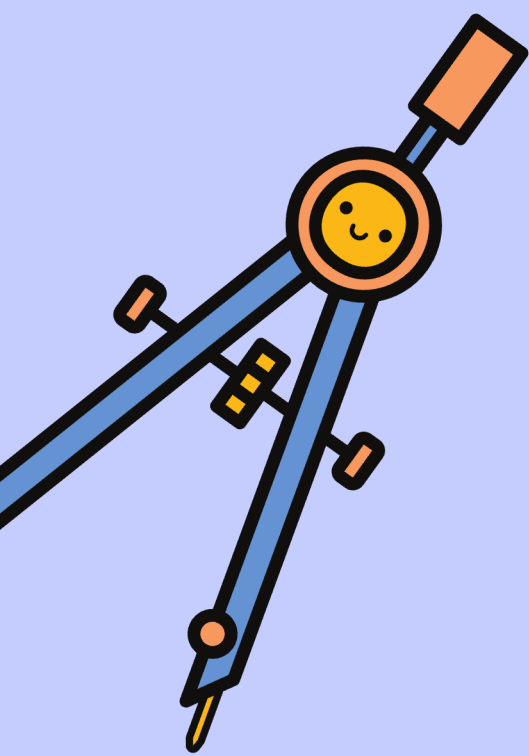
- share food
- measure ingredients
- read scales
- compare parts



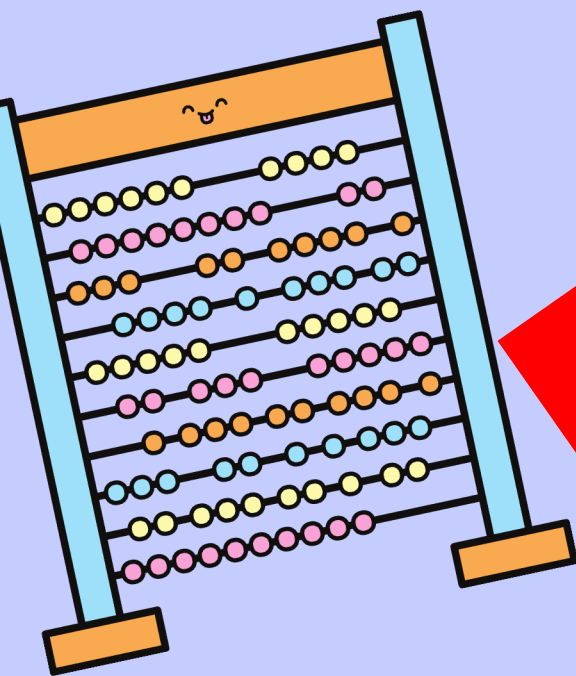
## Exit Ticket

1. Write two fractions equivalent to  $\frac{3}{4}$ .
2. Name the scale factor used for each.
3. Explain how you know the values are the same.

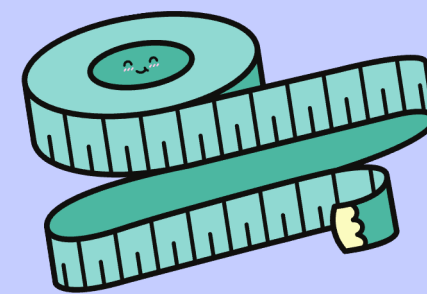
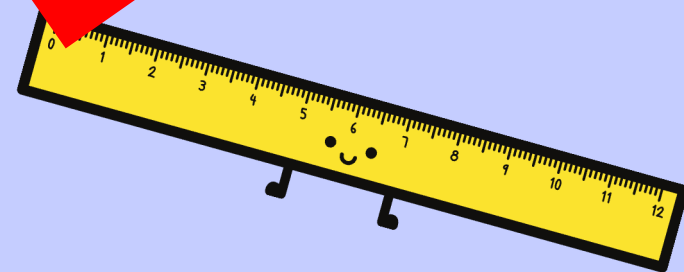




Well Done!



PREVIEW



# Equivalent Fractions Quick Quiz



## Question 1

True or false?

$3/4 > 1/2$



## Answer 1

Both fractions cover one half of the same whole.



## Question 2

Which fraction is equivalent to  $\frac{2}{10}$ ?

- A.  $\frac{1}{5}$       B.  $\frac{3}{6}$   
C.  $\frac{1}{4}$       D.  $\frac{1}{4}$



## Answer 2

B.  $\frac{1}{6}$

Put  $\frac{1}{10}$  and  $\frac{3}{5}$  simplify to  $\frac{1}{2}$ .



### Question 3

Complete the equivalent fraction.

$$\frac{\quad}{3} = \frac{\quad}{6}$$



## Answer 3

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

multiply both numbers by 2.



## Question 4

Which fraction is another name for one half?

A.  $\frac{1}{4}$  B.  $\frac{2}{3}$

C.  $\frac{4}{8}$  D.  $\frac{3}{8}$



## Answer 4

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

Four equal parts cover one half.



## Question 5

Complete the equivalent fraction.

$$\frac{1}{3} = \frac{\quad}{9}$$



## Answer 5

$$\frac{2}{3} \times \frac{6}{9}$$

multiply both numbers by 3.



## Question 6

True or false?

$$1/5 = 3/15$$



## Answer 6

FALSE

$\frac{2}{5} \times \frac{3}{5} = \frac{6}{25}$ , not  $\frac{6}{15}$ .



## Question 7

Which fraction is equivalent to  $\frac{1}{12}$ ?

- A.  $\frac{1}{3}$       B.  $\frac{1}{2}$   
C.  $\frac{2}{3}$       D.  $\frac{3}{4}$



## Answer 7

A.  $\frac{1}{3}$

Divide both numbers in  $\frac{4}{12}$  by 4.



## Question 8

Complete the equivalent fraction.

$$\frac{1}{9} = \frac{\quad}{12}$$



## Answer 8

$$\frac{3}{9} = \frac{4}{12}$$

Both fractions simplify to  $\frac{1}{3}$ .



## Question 9

Which fraction is equivalent to  $\frac{1}{8}$ ?

- A.  $\frac{1}{3}$       B.  $\frac{3}{8}$   
C.  $\frac{2}{3}$       D.  $\frac{3}{12}$



## Answer 9

D. 12

fractions simplify to  $\frac{1}{4}$ .



## Question 10

True or false?

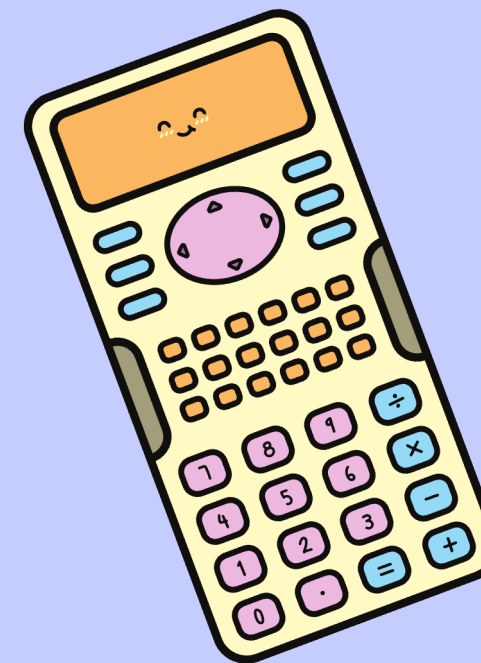
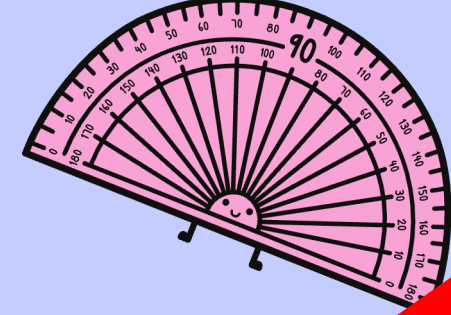
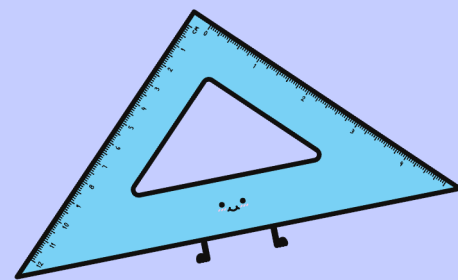
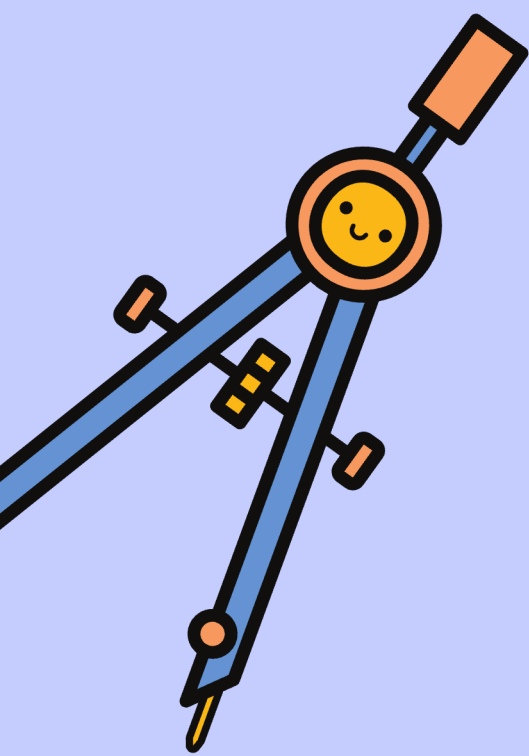
$5/12 > 1/2$



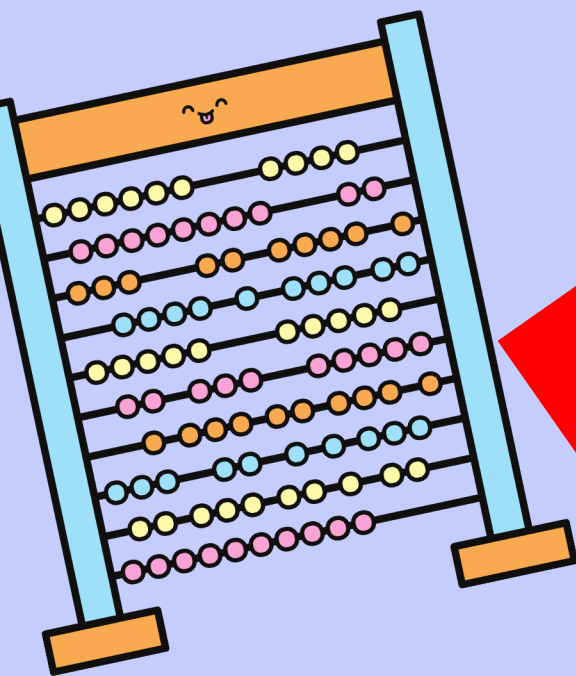
Answer 10

Directions: Simplify the numbers in  $6/12$  by 6.





Well Done!



PREVIEW

