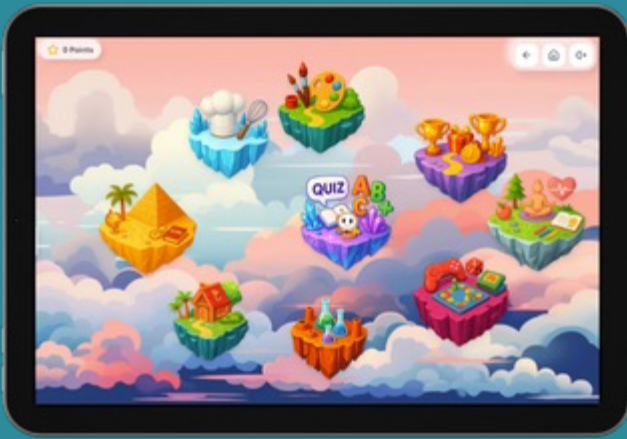


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Fabulous Fractions - Year 3

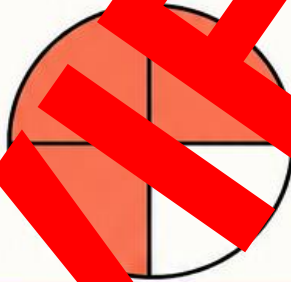
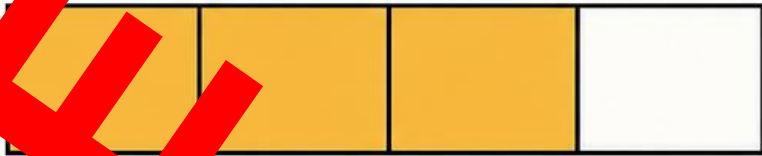
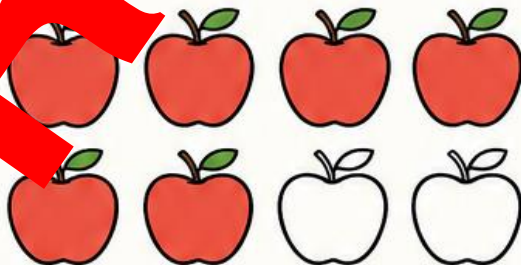
Table of Contents
Presentation: Fabulous Fractions
Classroom Displays: Fraction Wall and Ways to Show a Fraction
Game: Fraction Match-Up
Activity: Fraction Fruit Café
Worksheet: Equal Parts Detective
Worksheets: Shade and Name Fractions — Pages 1–2
Worksheet: Fractions of Collections
Worksheet: Fraction Number Lines
Worksheet: Fraction Think Boards
Quiz: Fabulous Fractions
Assessment: Fraction Garden Assessment
Rubric: Fabulous Fractions Rubric



FRACTION WALL

1 whole	1 whole									
halves	$\frac{1}{2}$		$\frac{2}{2}$							
thirds	$\frac{1}{3}$		$\frac{2}{3}$		$\frac{3}{3}$					
quarters	$\frac{1}{4}$		$\frac{2}{4}$		$\frac{3}{4}$		$\frac{4}{4}$			
fifths	$\frac{1}{5}$		$\frac{2}{5}$		$\frac{3}{5}$		$\frac{4}{5}$		$\frac{5}{5}$	
sixths	$\frac{1}{6}$		$\frac{2}{6}$		$\frac{3}{6}$		$\frac{4}{6}$		$\frac{5}{6}$	
eighths	$\frac{1}{8}$		$\frac{2}{8}$		$\frac{3}{8}$		$\frac{4}{8}$		$\frac{5}{8}$	
	$\frac{6}{8}$		$\frac{7}{8}$		$\frac{8}{8}$					
tenths	$\frac{1}{10}$		$\frac{2}{10}$		$\frac{3}{10}$		$\frac{4}{10}$		$\frac{5}{10}$	
	$\frac{6}{10}$		$\frac{7}{10}$		$\frac{8}{10}$		$\frac{9}{10}$		$\frac{10}{10}$	

WAYS TO SHOW A FRACTION

1 Symbol and words	$\frac{3}{4}$ three quarters
2 Region model	
3 Bar model	
4 Collection	 $6 \text{ out of } 8 = \frac{3}{4}$
5 Number line	

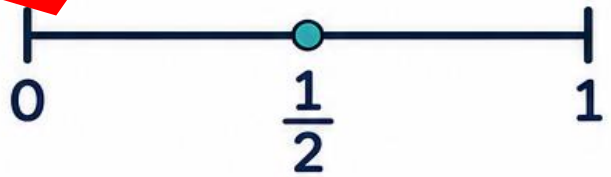
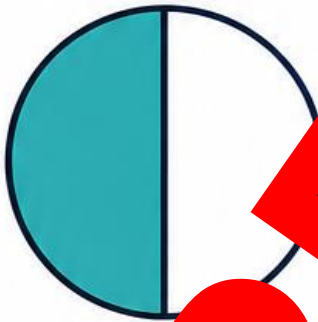
The whole is divided into equal parts.

FRACTION MATCH-UP

HOW TO PLAY: Mix the cards and place them face down. Turn over two cards. Keep the pair when both show the same fraction. The player with the most pairs wins.

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

one half



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

one third



FRACTION MATCH-UP

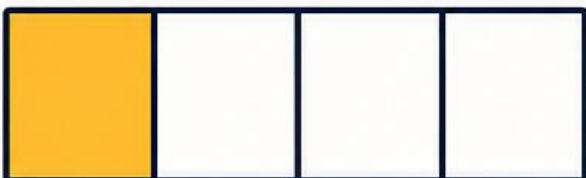
$\frac{2}{3}$

two thirds



$\frac{1}{4}$

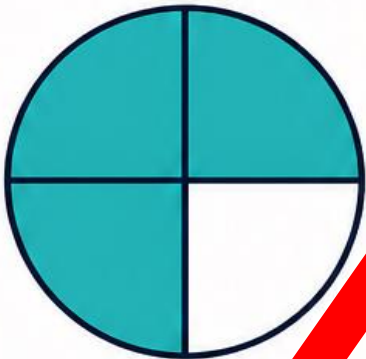
one quarter



FRACTION MATCH-UP

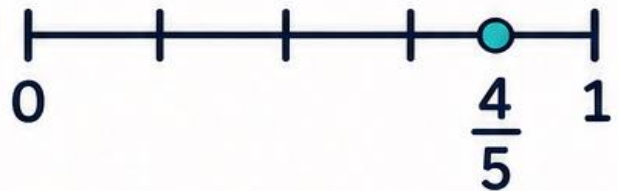
$$\frac{3}{4}$$

three
quarters



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

four
fifths



FRACTION FRUIT CAFE



Choose a recipe. Build one whole fruit bowl with the fraction pieces. Explain how the parts combine.



BERRY BLAST

- $\frac{2}{4}$ strawberries
- $\frac{1}{4}$ blueberries
- $\frac{1}{4}$ grapes



MAKES 1 WHOLE

TROPICAL TWIST

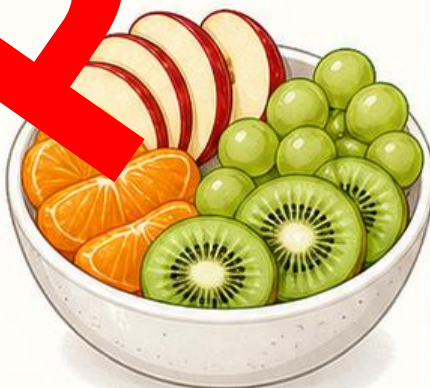
- $\frac{3}{5}$ pineapple
- $\frac{1}{5}$ mango
- $\frac{1}{5}$ banana



MAKES 1 WHOLE

RAINBOW CRUNCH

- $\frac{4}{10}$ apple
- $\frac{3}{10}$ grapes
- $\frac{2}{10}$ orange
- $\frac{1}{10}$ kiwi



MAKES 1 WHOLE

DOUBLE DELIGHT

- $\frac{1}{2}$ watermelon
- $\frac{1}{2}$ strawberries



MAKES 1 WHOLE

FRACTION FRUIT CAFE: BUILD A BOWL

Cut out the fruit tokens. Place the pieces in the bowl to make a recipe that totals one whole.



Name: _____

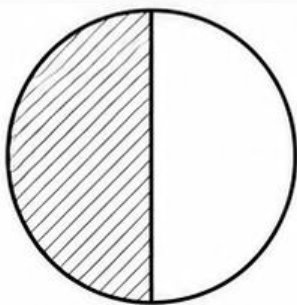


EQUAL PARTS DETECTIVE



Tick Equal or Not equal. If the parts are equal, write the fraction for one shaded part.

1.

☐

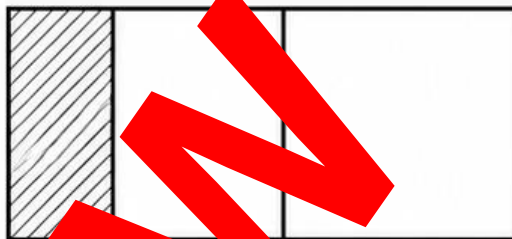
Equal

☐

Not equal

One shaded part = _____

2.

☐

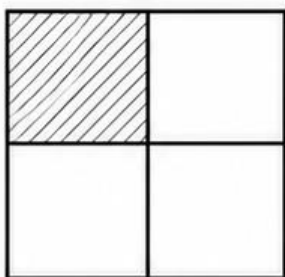
Equal

☐

Not equal

One shaded part = _____

3.

☐

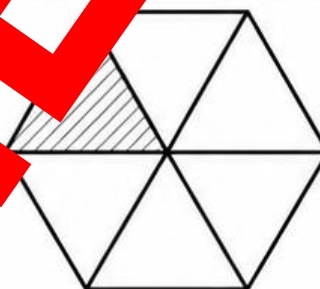
Equal

☐

Not equal

One shaded part = _____

4.

☐

Equal

☐

Not equal

One shaded part = _____

5.

☐

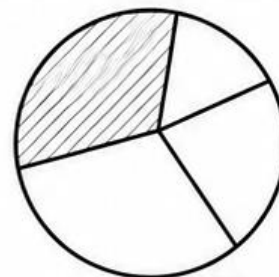
Equal

☐

Not equal

One shaded part = _____

6.

☐

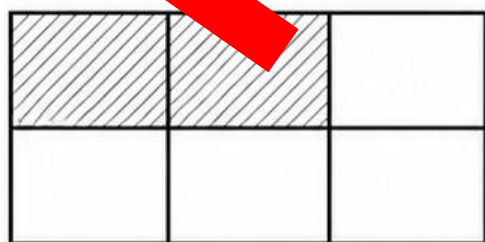
Equal

☐

Not equal

One shaded part = _____

7.

☐

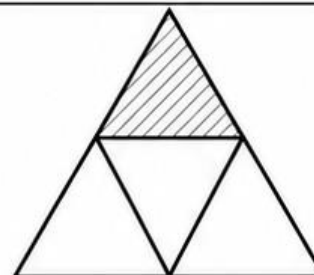
Equal

☐

Not equal

One shaded part = _____

8.

☐

Equal

☐

Not equal

One shaded part = _____

ANSWERS

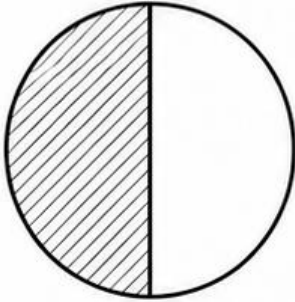


EQUAL PARTS DETECTIVE



Tick Equal or Not equal. If the parts are equal, write the fraction for one shaded part.

1.



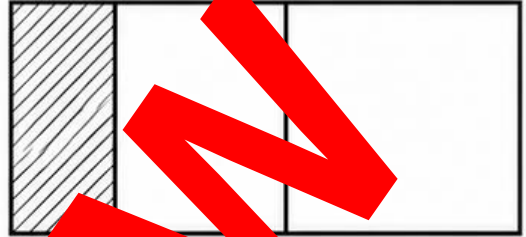
Equal



Not equal

One shaded part = $\frac{1}{2}$

2.



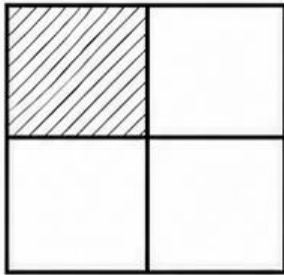
Equal



Not equal

One shaded part = $\frac{1}{3}$

3.



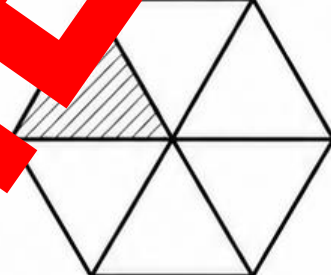
Equal



Not equal

One shaded part = $\frac{1}{4}$

4.



Equal



Not equal

One shaded part = $\frac{1}{6}$

5.



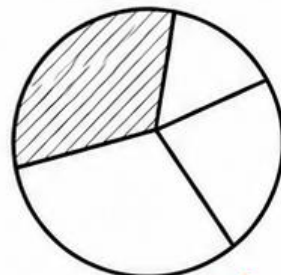
Equal



Not equal

One shaded part = $\frac{1}{5}$

6.



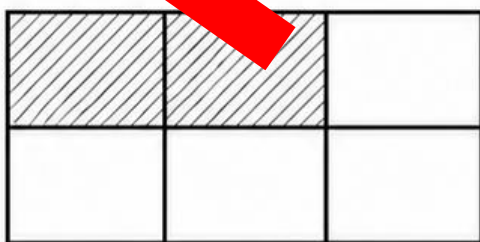
Equal



Not equal

One shaded part = $\frac{1}{4}$

7.



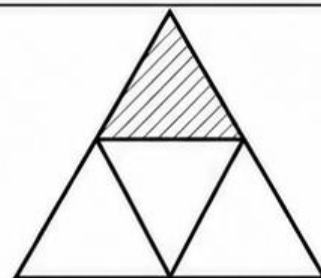
Equal



Not equal

One shaded part = $\frac{1}{6}$

8.



Equal



Not equal

One shaded part = $\frac{1}{4}$

Name: _____



SHADE AND NAME FRACTIONS

PAGE 1: UNIT FRACTIONS

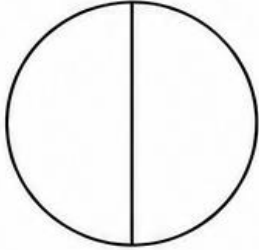
Shade the fraction shown. Then write the fraction in words.

$\frac{1}{2}$



1.

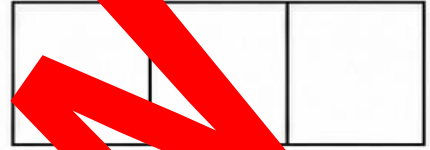
$\frac{1}{2}$



In words: _____

2.

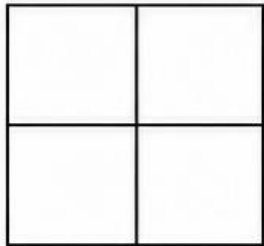
$\frac{1}{3}$



In words: _____

3.

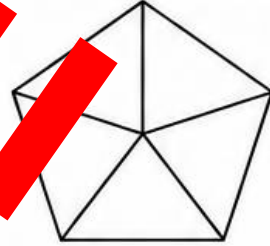
$\frac{1}{4}$



In words: _____

4.

$\frac{1}{5}$



In words: _____

5.

$\frac{1}{10}$



In words: _____

6.

$\frac{1}{3}$



In words: _____

7.

$\frac{1}{5}$



In words: _____

8.

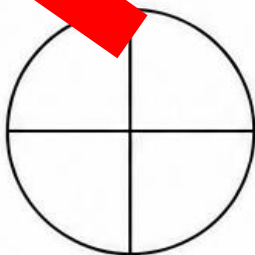
$\frac{1}{2}$



In words: _____

9.

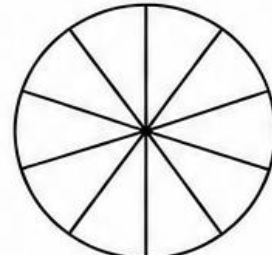
$\frac{1}{4}$



In words: _____

10.

$\frac{1}{10}$



In words: _____



SHADE AND NAME FRACTIONS

PAGE 1: UNIT FRACTIONS

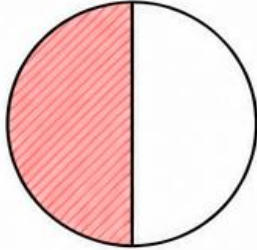
Shade the fraction shown. Then write the fraction in words.

$\frac{1}{2}$



1.

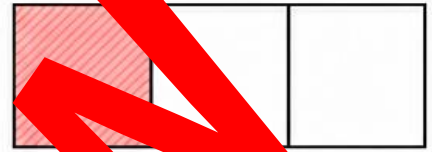
$\frac{1}{2}$



In words: one half

2.

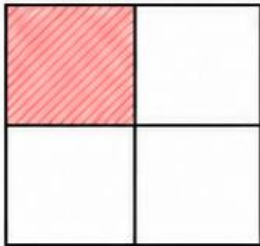
$\frac{1}{3}$



In words: one third

3.

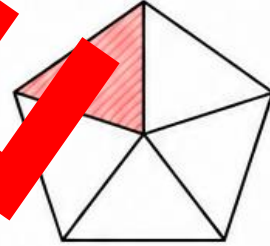
$\frac{1}{4}$



In words: one quarter

4.

$\frac{1}{5}$



In words: one fifth

5.

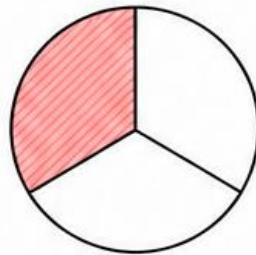
$\frac{1}{10}$



In words: one tenth

6.

$\frac{1}{3}$



In words: one third

7.

$\frac{1}{5}$



In words: one fifth

8.

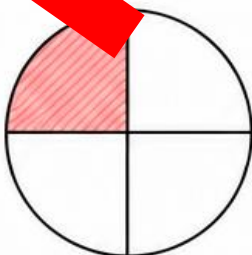
$\frac{1}{2}$



In words: one half

9.

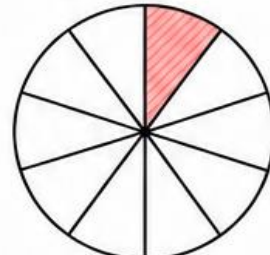
$\frac{1}{4}$



In words: one quarter

10.

$\frac{1}{10}$



In words: one tenth

Name: _____



SHADE AND NAME FRACTIONS

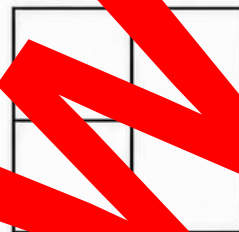
PAGE 2: MULTIPLES AND WHOLES

Shade each model. Then complete the equations to make one whole.

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



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



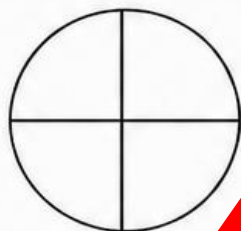
3. $\frac{4}{5}$



4. $\frac{3}{10}$



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

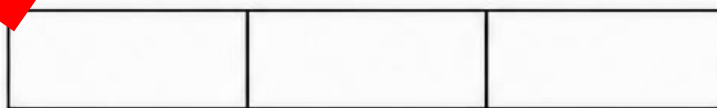


6. $\frac{3}{4}$



MAKE ONE WHOLE

7. $\frac{1}{3} + \frac{\quad}{3} = \frac{3}{3}$



8. $\frac{2}{4} + \frac{\quad}{4} = \frac{4}{4}$



9. $\frac{3}{5} + \frac{\quad}{5} = \frac{5}{5}$



10. $\frac{7}{10} + \frac{\quad}{10} = \frac{10}{10}$



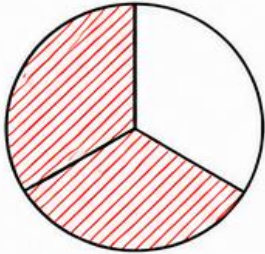


SHADE AND NAME FRACTIONS

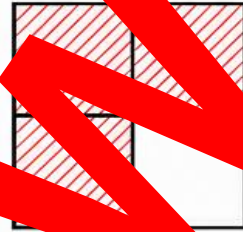
PAGE 2: MULTIPLES AND WHOLES

Shade each model. Then complete the equations to make one whole.

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



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



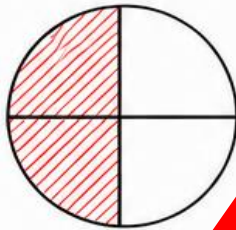
3. $\frac{4}{5}$



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



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



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



MAKE ONE WHOLE

7. $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$



8. $\frac{2}{4} + \frac{2}{4} = \frac{4}{4}$



9. $\frac{3}{5} + \frac{2}{5} = \frac{5}{5}$



10. $\frac{7}{10} + \frac{3}{10} = \frac{10}{10}$





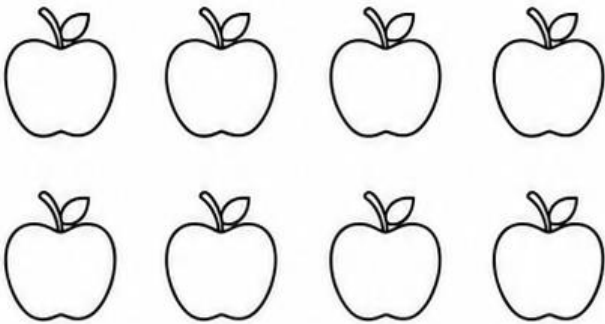
Name: _____



FRACTIONS OF COLLECTIONS

Circle the requested fraction of each collection. Then complete the number sentence.

1. Circle $\frac{1}{2}$ of the apples.



$$\frac{1}{2} \text{ of } 8 = \underline{\hspace{2cm}}$$

2. Circle $\frac{1}{3}$ of the stars.



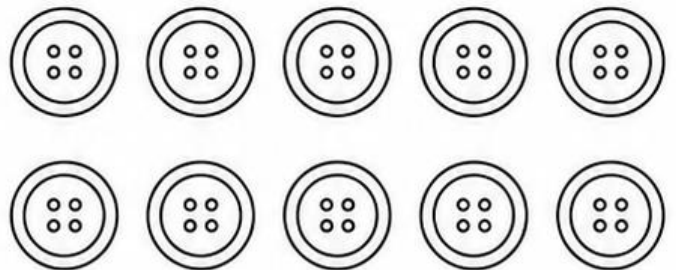
$$\frac{1}{3} \text{ of } 9 = \underline{\hspace{2cm}}$$

3. Circle $\frac{1}{4}$ of the leaves.



$$\frac{1}{4} \text{ of } 12 = \underline{\hspace{2cm}}$$

4. Circle $\frac{3}{5}$ of the buttons.



$$\frac{3}{5} \text{ of } 10 = \underline{\hspace{2cm}}$$



Name: _____

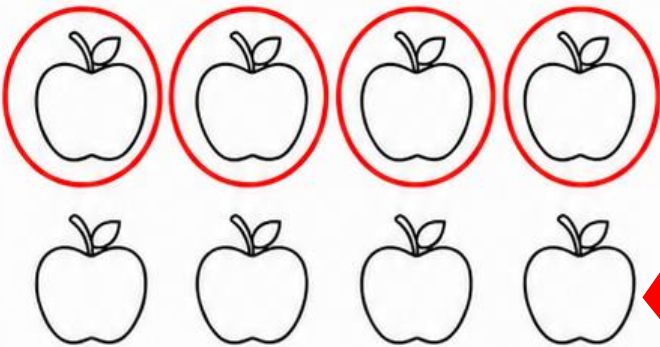
ANSWERS



FRACTIONS OF COLLECTIONS

Circle the requested fraction of each collection. Then complete the number sentence.

1. Circle $\frac{1}{2}$ of the apples.



$$\frac{1}{2} \text{ of } 8 = \underline{4}$$

2. Circle $\frac{1}{3}$ of the stars.



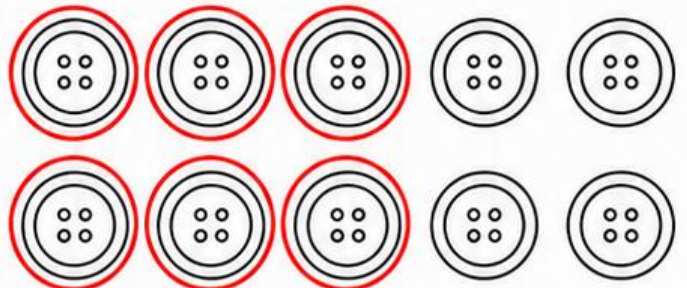
$$\frac{1}{3} \text{ of } 9 = \underline{3}$$

3. Circle $\frac{1}{4}$ of the leaves.



$$\frac{1}{4} \text{ of } 12 = \underline{3}$$

4. Circle $\frac{3}{5}$ of the buttons.



$$\frac{3}{5} \text{ of } 10 = \underline{6}$$



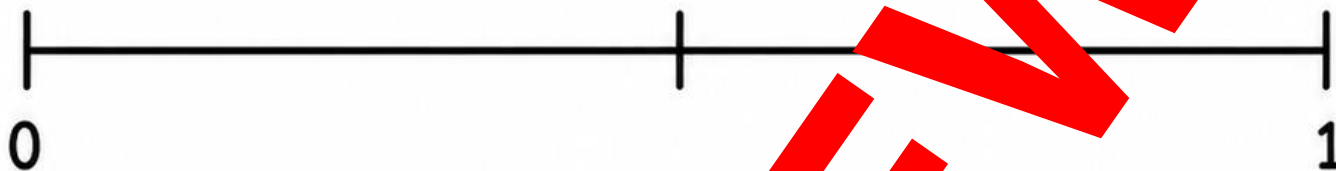
FRACTION NUMBER LINES – PAGE 1



Name: _____

Mark and label the requested unit fraction on each number line.

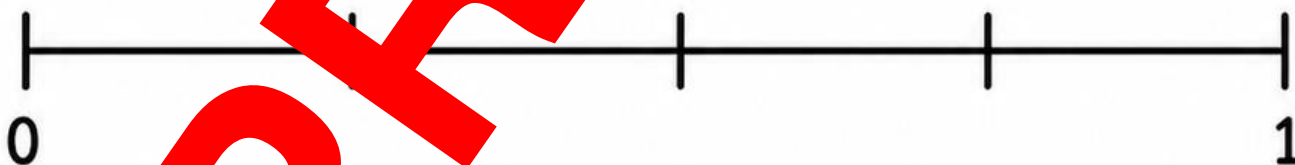
1. Halves: mark $\frac{1}{2}$



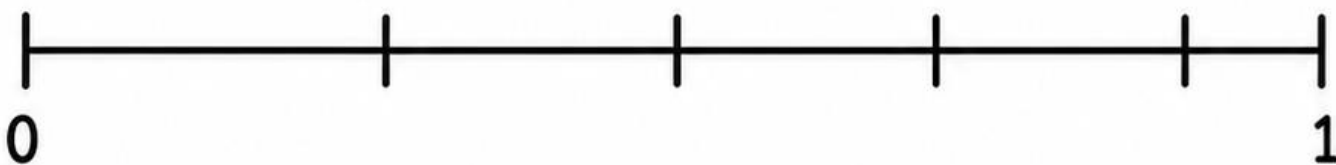
2. Thirds: mark $\frac{1}{3}$



3. Quarters: mark $\frac{1}{4}$



4. Fifths: mark $\frac{1}{5}$





FRACTION NUMBER LINES – PAGE 1



Name: _____

ANSWERS

Mark and label the requested unit fraction on each number line.

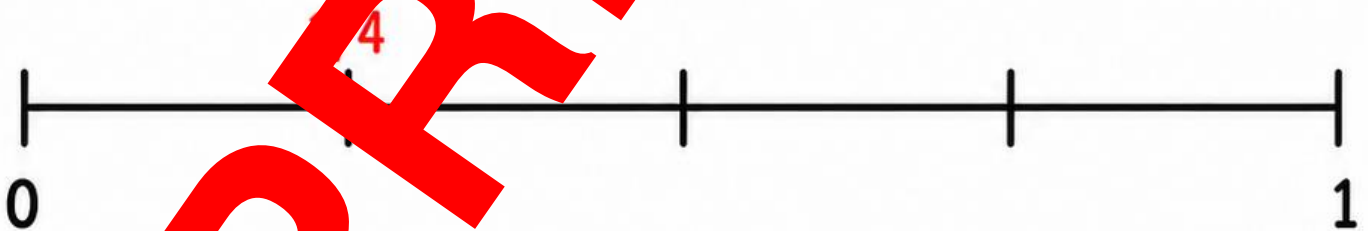
1. Halves: mark $\frac{1}{2}$



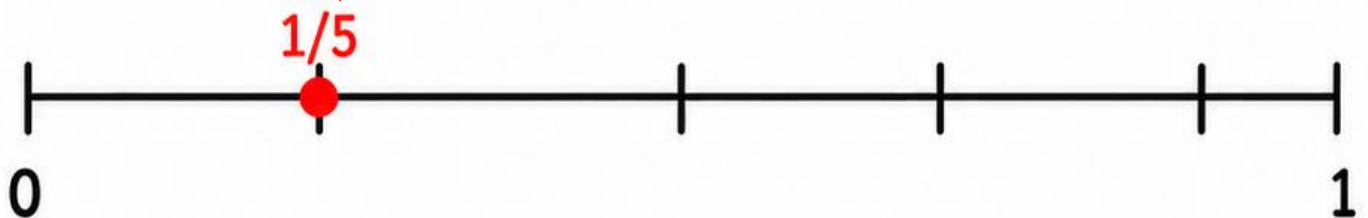
2. Thirds: mark $\frac{1}{3}$



3. Quarters: mark $\frac{1}{4}$

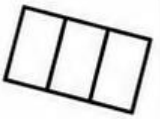


4. Fifths: mark $\frac{1}{5}$



 $\frac{1}{2}$

FRACTION THINK BOARDS

 $\frac{3}{4}$

Name: _____

Choose a fraction for each board. Show it in five connected ways.

BOARD 1

My fraction: _____

In words

Area model

Collection

Number line



Fraction story

BOARD 2

My fraction: _____

In words

Area model

Collection

Number line



Fraction story



FRACTION GARDEN ASSESSMENT — PAGE 1



Name: _____ Date: _____

Understanding and representing fractions

1. In the fraction $\frac{3}{4}$, label the numerator and denominator.

$\frac{3}{4}$

→ _____

→ _____

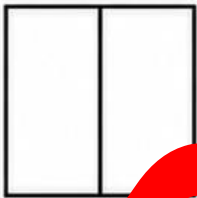
2. Write $\frac{2}{3}$ in words.

3. Shade $\frac{3}{5}$ of the bar.

--	--	--	--	--

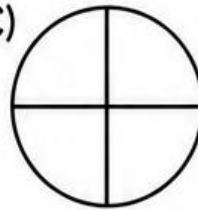
4. Write EQUAL or UNEQUAL under each shape.

(A)





(C)



(D)



5. Show $\frac{1}{2}$ in two different ways.

Way 1

Way 2



FRACTION GARDEN ASSESSMENT — PAGE 1



Name: _____ Date: _____ **ANSWERS**

Understanding and representing fractions

1. In the fraction $\frac{3}{4}$, label the numerator and denominator.

$\frac{3}{4}$ → numerator
→ denominator

2. Write $\frac{2}{3}$ in words.

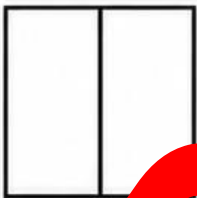
two thirds

3. Shade $\frac{3}{5}$ of the bar.



4. Write EQUAL or UNEQUAL under each shape.

(A)

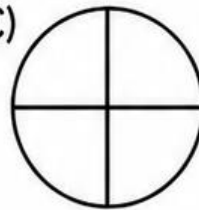


EQUAL



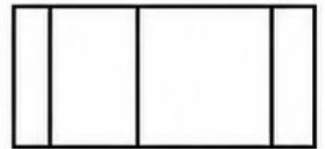
UNEQUAL

(C)



EQUAL

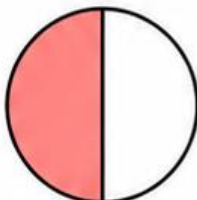
(D)



UNEQUAL

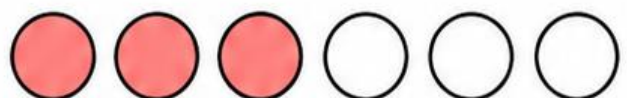
5. Show $\frac{1}{2}$ in two different ways.

Way 1



$\frac{1}{2}$

Way 2



$\frac{1}{2}$



FRACTION GARDEN ASSESSMENT — PAGE 2

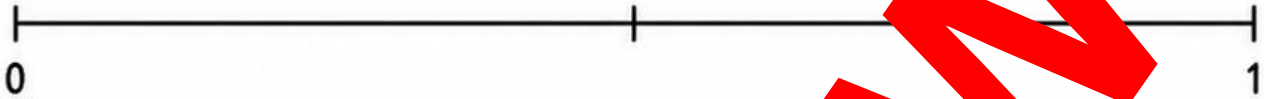


Name: _____ Date: _____

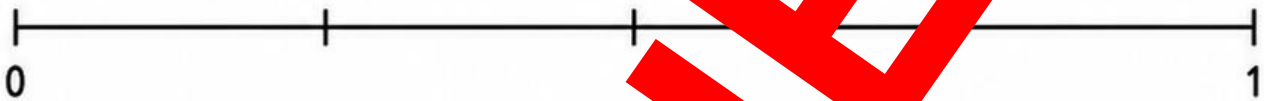


Locating, comparing and solving with fractions

1. Place $\frac{1}{2}$ on the number line.



2. Place $\frac{3}{4}$ on the number line.



3. Circle the larger fraction in each pair.

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

$\frac{3}{5}$ or $\frac{1}{5}$

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

4. Mia cuts a sandwich into 4 equal pieces and eats 3 pieces. What fraction did she eat?

5. There are 12 flowers. One third are yellow. How many flowers are yellow?

Working

Answer: _____ flowers





FRACTION GARDEN ASSESSMENT — PAGE 2

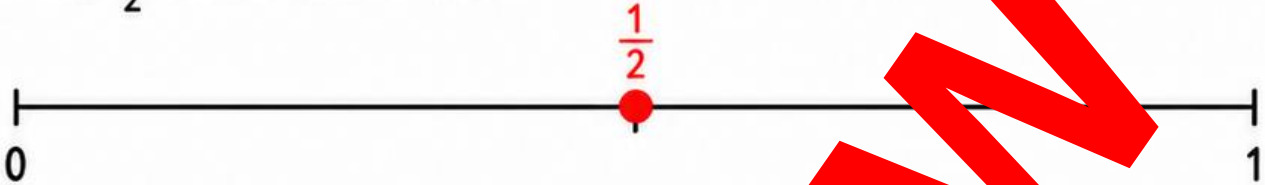


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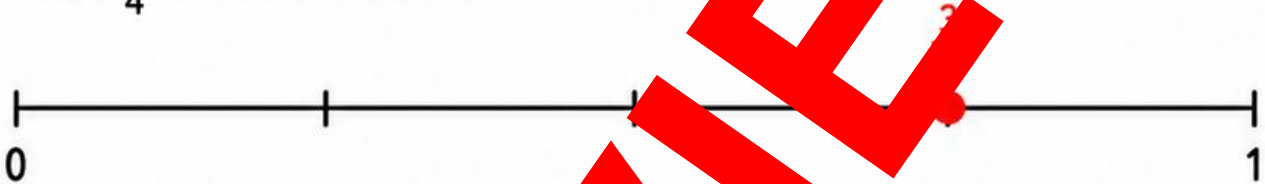
ANSWERS

Locating, comparing and solving with fractions

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

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4. Mia cuts a sandwich into 4 equal pieces and eats 3 pieces. What fraction did she eat?

$\frac{3}{4}$

5. There are 12 flowers. One third are yellow. How many flowers are yellow?

Working

$12 \div 3 = 4$

$\frac{1}{3}$ of 12 = 4

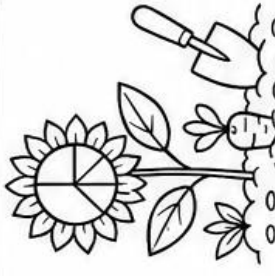
Answer: 4 flowers





FABULOUS FRACTIONS RUBRIC

Year 3 Mathematics



Student: _____

Date: _____

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Equal parts	Needs support to recognise equal parts.	Sometimes recognises equal parts with support.	Identifies equal parts with some accuracy.	Consistently identifies equal parts.	Confidently identifies and creates equal parts in different ways.
Representations	Needs support to represent fractions.	Shows a fraction represented with support.	Shows common fraction representations.	Accurately shows fractions in several different ways.	Accurately and flexibly uses a range of fraction representations.
Numerator and denominator	Needs support to identify both terms.	Identifies one term or mixes them up.	Identifies numerator and denominator with some support.	Identifies numerator and denominator correctly and explains their roles.	Clearly explains both terms and their roles in different fractions.
Number lines and comparisons	Needs support to locate or compare fractions.	Locates or compares fractions with support.	Locates and compares fractions with some accuracy.	Accurately locates and compares fractions.	Accurately locates and compares fractions and explains why.
Reasoning and communication	Needs support to explain fraction thinking.	Gives a simple explanation with support.	Explains thinking using fraction language.	Explains ideas clearly using correct fraction language.	Explains ideas in detail and uses fraction language confidently.

Total: ____ / 25

Teacher comment:

5 = EXCEEDING

4 = CONFIDENT

3 = ACHIEVING

2 = DEVELOPING

1 = BEGINNING

PREVIEW

Fabulous
Fractions



A Fair Share

PREVIEW



Fractions Need Equal Parts

PREVIEW

A fraction describes equal parts of a whole. For example, $\frac{1}{2}$ means one part out of two equal parts. If the parts are different sizes, they are not fair shares.



Partition One Whole

PREVIEW

We can partition one whole into halves, thirds, quarters, fifths, and more.
The parts may look different, but each part must be equal in size.



Read Fraction Notation

PREVIEW

3/4 number is the nume
the b umb is the de om



Unit Fractions

PREVIEW

A unit fraction is a fraction with a numerator of 1. Examples of unit fractions are $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{5}$.



The Denominator

PREVIEW

The denominator shows how many equal parts the whole is divided into. In $\frac{1}{5}$, the whole has been partitioned into 5 parts.



The Numerator

PREVIEW



Build Unit Fractions

PREVIEW

How many 2 parts thirds have 3. Give 4.
Five 5ths have 5 and ten 10ths have 1 equivalent.



Multiples of Unit Fractions

PREVIEW

Fractions such as $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{6}{10}$ describe more than one equal part. The denominator stays the same, so the size of each part is the same.



Area Models

PREVIEW



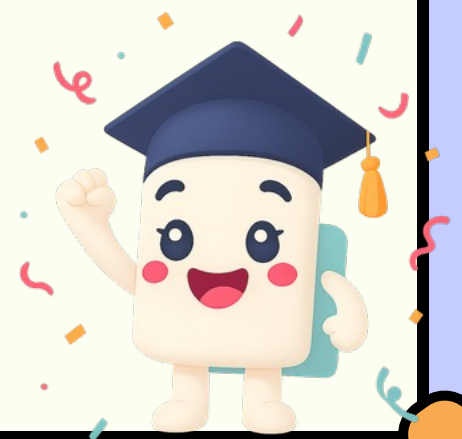
Bar Models

PREVIEW



Fractions of Collections

PREVIEW



Count Equal Groups

PREVIEW



Fractions Are Numbers

PREVIEW

A number line segment from 0 to 1 is divided into 4 equal parts. Each part represents $\frac{1}{4}$ of the whole. The fraction $\frac{1}{4}$ is represented by the first part from 0.



Locate Quarters

PREVIEW

the from 0 to nt 4 e rv .
The into s represent $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$



Equivalent Fractions

PREVIEW



Make One Whole

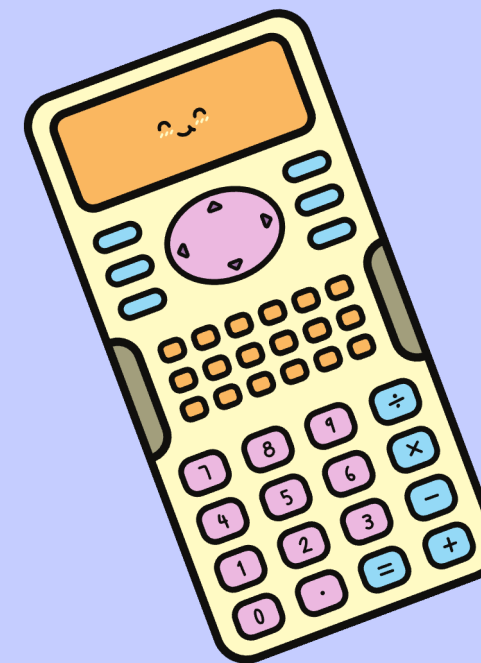
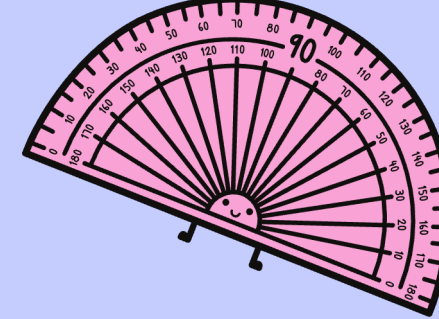
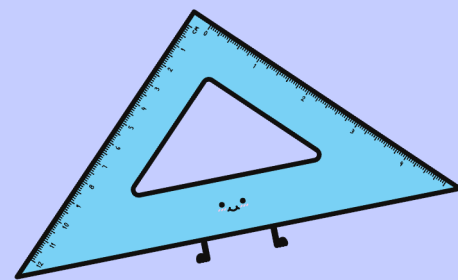
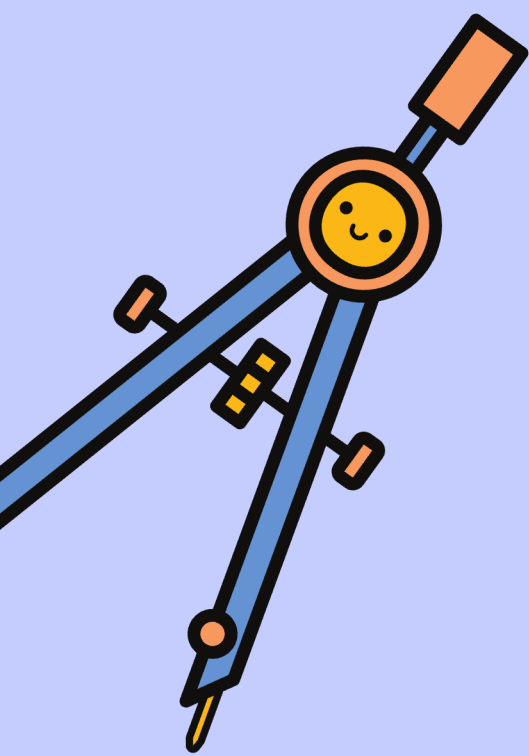
PREVIEW



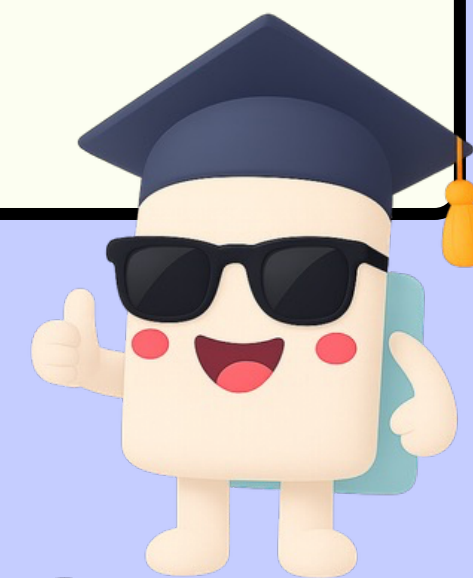
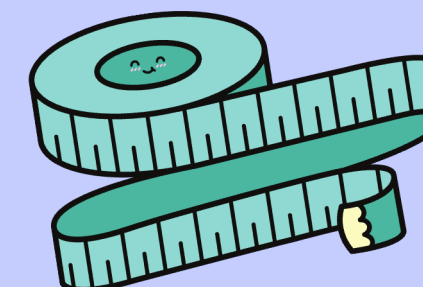
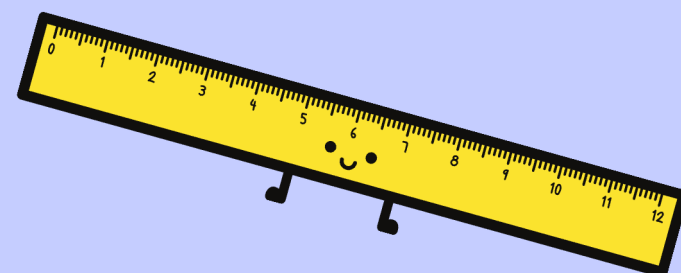
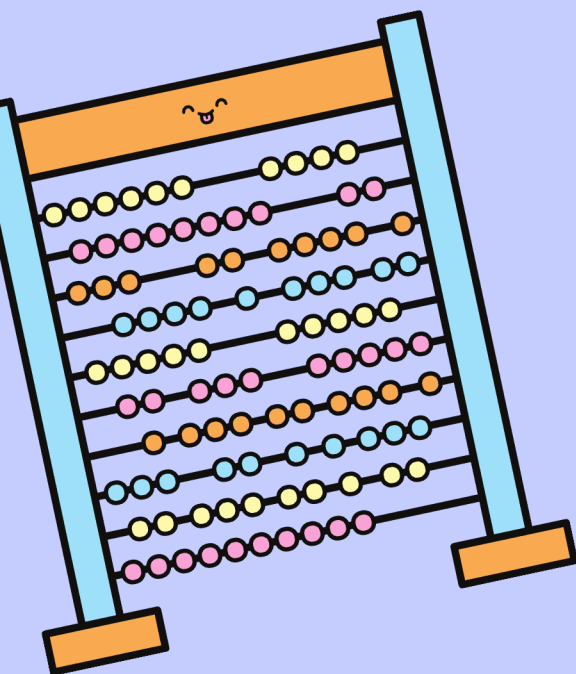
Guided Review

PREVIEW





PREVIEW



PREVIEW

Formulas Fractions
Quiz



Question 1

True or False: A fraction must describe equal parts of a whole or collection.

PREVIEW



Answer 1

True and arts rest ed

PREVIEW



Question 2

PREVIEW



Answer 2

PREVIEW

The denominator tells how many equal parts make the whole.



Question 3

PREVIEW

What is the number in the tens place of 107?

A. 7

B. 10

C. 17

D. 3



Answer 3

PREVIEW



Question 4

PREVIEW

How do we write $\frac{2}{3}$ in words?

- A. two halves
- B. three thirds
- C. two thirds
- D. three quarters



Answer 4

PREVIEW



Question 5

PREVIEW

Which fraction is larger?

A. $\frac{1}{4}$

B.

C. They are equal

D. It cannot be known



Answer 5

PREVIEW

When the whole is divided into fewer equal parts, each part is larger.

$\frac{1}{2}$



Question 6

PREVIEW

box has 4 equal cells and 3 are shaded. What fraction is shaded?

A. $1/4$

B.

C. $4/3$

D. $3/5$



Answer 6

PREVIEW^{3/4}



Question 7

PREVIEW



Answer 7

PREVIEW



Question 8

PREVIEW

A number line is divided into 5 equal intervals. Which tick shows $\frac{1}{5}$?

- A. first tick after 0
- B. second tick after 0
- C. fourth tick after 0
- D. the endpoint at 1



Answer 8

PREVIEW



Question 9

PREVIEW

Complete the equation $6 + \frac{\quad}{6} = 6$

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

B. $\frac{2}{6}$

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

D. $\frac{6}{6}$



Answer 9

PREVIEW



Question 10

True or False: 5/11 is equivalent to 5/11.

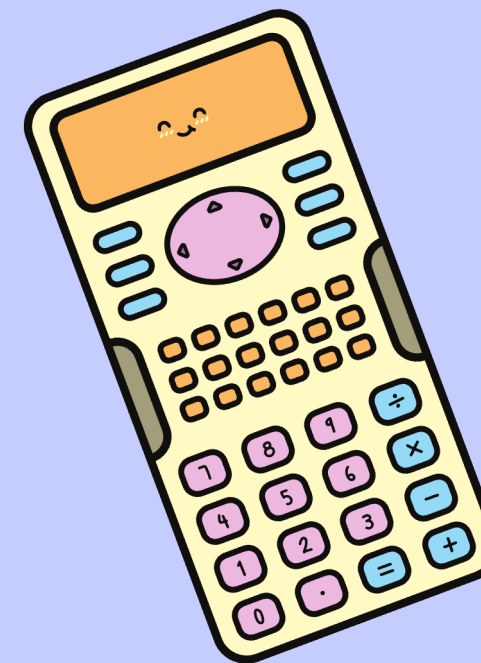
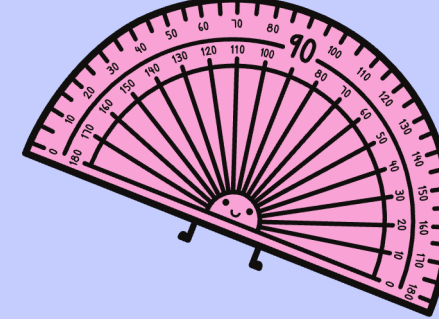
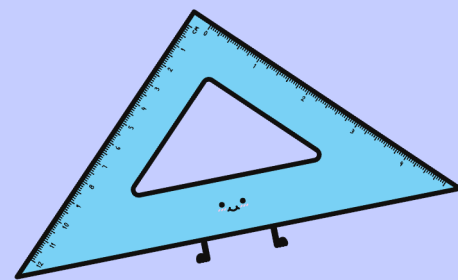
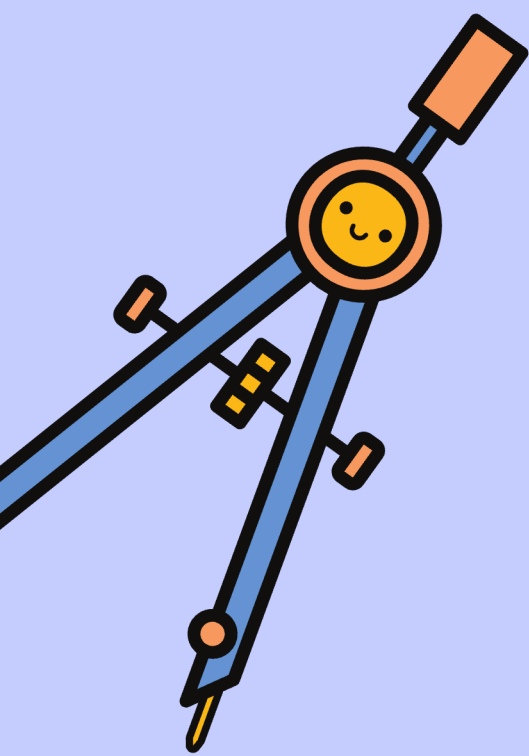
PREVIEW



Answer 10

PREVIEW





PREVIEW

