Name & Surname: _____ Class: _____ Date: _____

Same Amount, New Look

Recognize and make equivalent fractions

About 60 minutes Level ★★★☆☆

Equivalent Fractions Match!

Fractions that look different but show the **same** amount of the **same-size whole** are equivalent.

- Example: $\frac{1}{2} = \frac{2}{4}$ and $\frac{2}{3} = \frac{4}{6}$.
- Cut each piece into the **same** number of smaller equal pieces to make a match.
- Wholes must stay the **same-size** or you cannot compare.



Task A

/6

Fill the missing parts. Each row shows the same amount as a fraction, decimal, and percent.

Fraction	Decimal	Percentage
$\frac{1}{2}$		
	0.25	
		75%

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Find the Match

Practice spotting equivalent fractions.

Task B /10

Use the same-size whole idea to find equivalent fractions.

WARM UP

1 A bar is cut into 2 **equal** parts with 1 part shaded. Write the fraction.

Answer: _____

2 A **same-size** bar is cut into 4 **equal** parts with 2 parts shaded. Write the fraction.

Answer: _____

3 Are $\frac{1}{2}$ and $\frac{2}{4}$ **equivalent**? Write yes or no.

Answer: _____

4 Which fraction is **equivalent** to $\frac{1}{2}$: $\frac{1}{3}$, $\frac{2}{4}$, or $\frac{3}{5}$?

Answer: _____

PRACTICE

5 A model shows $\frac{2}{3}$ shaded. Cut each third into 2 **equal** parts. Write the new fraction with 6 on the bottom.

Answer: _____

6 Student A says $\frac{4}{6}$ and $\frac{2}{3}$ are **equivalent**. Is Student A right or wrong?

Answer: _____

7 Fill in the **missing** numerator: $\frac{1}{3} = ?/6$

Answer: _____

PROBLEM SOLVING

8 Two **same-size** strips show $\frac{1}{2}$ and $\frac{3}{6}$ shaded. Are they **equivalent**? Explain how you know.

Answer: _____

9 Student B says $\frac{2}{3}$ is **equivalent** to $\frac{2}{4}$ because the tops match. Is Student B right? Explain.

Answer: _____

10 A paper strip is cut into 8 **equal** parts. How many parts must be shaded to match $\frac{1}{2}$?

Answer: _____

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Make New Fractions

Practice making equivalent fractions yourself.

Key words

equivalent: same value, different look

denominator: bottom number that counts equal parts in the whole

numerator: top number that counts shaded parts

whole: one full shape or amount

Task C

/10

Make **equivalent** fractions by cutting into more **equal** parts.

WARM UP

1 Write the fraction for 1 **whole** cut into 4 equal parts with 1 part shaded.

Answer: _____

2 Cut each fourth in half to make 8 parts. If $\frac{1}{4}$ was shaded, how many eighths are now shaded? Write the **equivalent** fraction.

Answer: _____

3 Are $\frac{1}{4}$ and $\frac{2}{8}$ **equivalent**? Write yes or no.

Answer: _____

4 Which fraction is **equivalent** to $\frac{3}{4}$: $\frac{5}{8}$, $\frac{6}{8}$, or $\frac{2}{4}$?

Answer: _____

PRACTICE

5 Fill the **missing** numerator: $\frac{1}{2} = ?/8$

Answer: _____

6 Fill the **missing** denominator: $\frac{2}{3} = 4/?$

Answer: _____

7 Student A changes $\frac{2}{4}$ to $\frac{4}{4}$ by adding 2 to the **top** only. Did Student A make an equivalent fraction? Write yes or no.

Answer: _____

PROBLEM SOLVING

8 A student folds a **paper** strip into 3 equal parts and shades 2 parts. Then the student folds each part in half. What **equivalent** fraction shows the shaded parts now?

Answer: _____

9 A student shares half a sandwich. A partner cuts a **same-size** sandwich into 6 equal parts and takes 3 parts. Did both get the **same** amount? Explain.

Answer: _____

10 How many **eighths** are equivalent to $\frac{3}{4}$? Write the fraction.

Answer: _____

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Shade and Sort

Shade models and sort fractions.

Task D

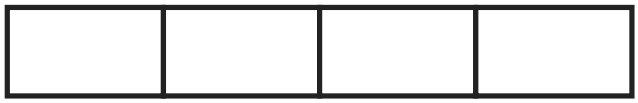
/4

Shade or name to show equivalent amounts in same-size wholes.

1



$= \frac{1}{2}$

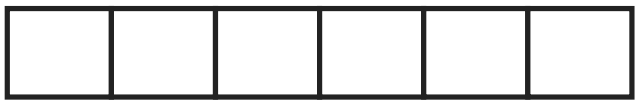


$= \frac{\square}{4}$

2



$= \frac{2}{3}$



$= \frac{\square}{6}$

3



$\frac{1}{2}$



$\frac{2}{4}$

$\frac{1}{2} \square \frac{2}{4}$ Write <, > or =

4



Fraction shaded: $\frac{\square}{\square}$

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Same Amount, New Look

↑↓ Task E

Example done for you

/5

Sort the fractions by value. Put each in the right group.

~~2/4~~ 4/8 2/3 3/6 1/3 3/4

Equivalent to $\frac{1}{2}$	Not equivalent to $\frac{1}{2}$
2/4	

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Steps That Work

Follow the steps, then try number lines.

Task F

/2

Follow the cutting steps to make equivalent fractions.

WORKED EXAMPLE

Find the fraction equivalent to $\frac{1}{2}$ with 4 on the bottom.

1. Draw 2 **same-size** bars
2. Shade 1 out of 2 on the first bar
3. Cut each half into 2 **equal** parts to make 4 parts
4. Count 2 shaded out of 4, so $\frac{1}{2} = \frac{2}{4}$

Answer: $\frac{2}{4}$

YOUR TURN

Find the fraction equivalent to $\frac{1}{2}$ with 6 on the bottom.

Answer: _____

WORKED EXAMPLE

Find the fraction equivalent to $\frac{2}{3}$ with 6 on the bottom.

1. Draw 2 **same-size** bars
2. Shade 2 out of 3 on the first bar
3. Cut each third into 2 **equal** parts to make 6 parts
4. Count 4 shaded out of 6, so $\frac{2}{3} = \frac{4}{6}$

Answer: $\frac{4}{6}$

YOUR TURN

Find the fraction equivalent to $\frac{3}{4}$ with 8 on the bottom.

Answer: _____

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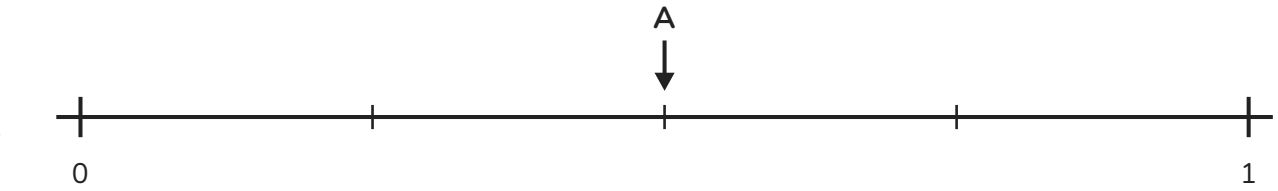
Same Amount, New Look

↑↓ Task G

/4

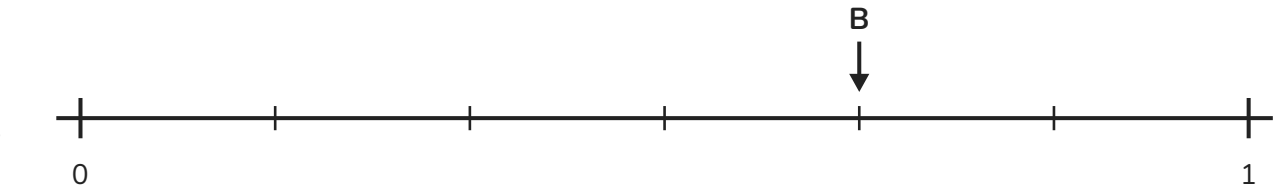
Find and mark equivalent fractions. Same spot means same value!

1



A = ☐ Draw an arrow to show: $\frac{3}{4}$

2



B = ☐ Draw an arrow to show: $\frac{1}{2}$

How did I do?

Circle a face for each line.

I can recognize equivalent fractions in models.	☹	😐	☺
I can make an equivalent fraction with more parts.	☹	😐	☺
I can explain why fractions are equivalent using a model or number line.	☹	😐	☺

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Answer sheet: Same Amount, New Look

Task A

1. $\frac{1}{2}$ = 0.5 = 50%
2. $\frac{1}{4}$ = 0.25 = 25%
3. $\frac{3}{4}$ = 0.75 = 75%

Task B

1. $\frac{1}{2}$
2. $\frac{2}{4}$
3. yes
4. $\frac{2}{4}$
5. $\frac{4}{6}$
6. right
7. 2
8. Yes, they cover the same amount of the same-size whole.
9. No, the shaded amounts are not the same.
10. 4

Task C

1. $\frac{1}{4}$
2. $\frac{2}{8}$
3. yes
4. $\frac{6}{8}$
5. 4
6. 6
7. no
8. $\frac{4}{6}$
9. Yes, $\frac{1}{2}$ and $\frac{3}{6}$ cover the same amount.
10. $\frac{6}{8}$

Task D

1. $\frac{1}{2}$ = $\frac{2}{4}$ (shade 2 parts)
2. $\frac{2}{3}$ = $\frac{4}{6}$ (shade 4 parts)
3. $\frac{1}{2}$ = $\frac{2}{4}$
4. $\frac{3}{6}$

Task E

Equivalent to $\frac{1}{2}$: $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$

Not equivalent to $\frac{1}{2}$: $\frac{1}{3}$, $\frac{2}{3}$, $\frac{3}{4}$

Task F

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

Task G

1. A = $\frac{1}{2}$; arrows at $\frac{3}{4}$
2. B = $\frac{2}{3}$; arrows at $\frac{1}{2}$

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