

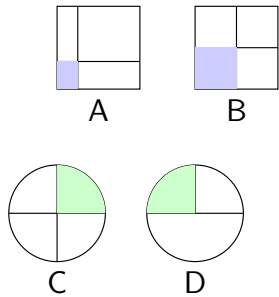
Fractions: Starters

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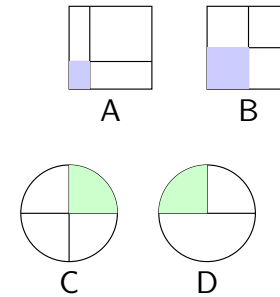
Starter 1



Questions

1. Which shapes (A, B, C, D) are divided into equal parts?
2. In shape B, what fraction is shaded?
3. Draw a rectangle divided into 5 equal parts. Shade $\frac{3}{5}$.
4. Which is larger: $\frac{2}{5}$ or $\frac{3}{5}$?
5. Which is larger: $\frac{3}{5}$ or $\frac{3}{4}$?
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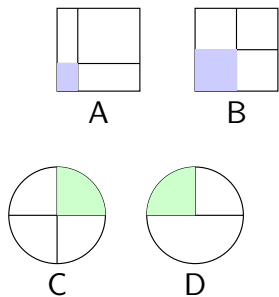
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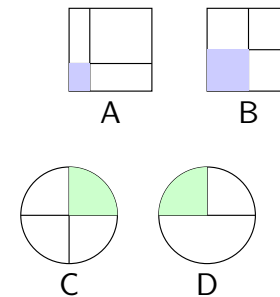
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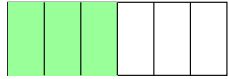
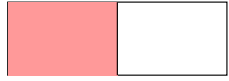
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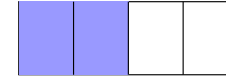
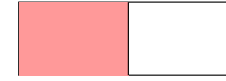
Starter 2



Questions

1. Write the fraction shaded for each bar.
2. Is the same proportion of each bar shaded?
3. Use the bars to fill in the blanks: $\frac{?}{2} = \frac{?}{4} = \frac{?}{6}$
4. Shade $\frac{2}{3}$ of a bar divided into 9 parts.
5. Find the missing numerator: $\frac{2}{3} = \frac{?}{9}$
6. Find the missing numerator: $\frac{1}{3} = \frac{?}{6}$.
7. Which two fractions are equivalent: $\frac{1}{2}, \frac{2}{5}, \frac{4}{8}, \frac{3}{6}$?

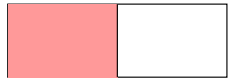
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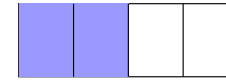
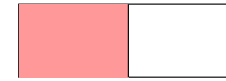
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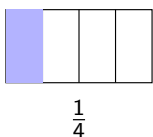
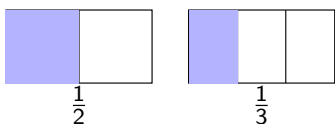
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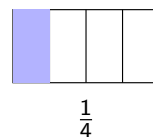
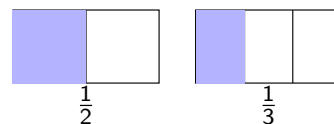
Starter 3: Comparing Fractions



Questions

1. Which is larger: $\frac{1}{2}$ or $\frac{1}{3}$?
2. Compare $\frac{2}{5}$ and $\frac{4}{5}$. Which is bigger?
3. Convert $\frac{3}{4}$ and $\frac{5}{8}$ to a common denominator. Which is larger?
4. Order from smallest to largest: $\frac{1}{3}, \frac{1}{6}, \frac{1}{2}$.
5. Sam ate $\frac{2}{3}$ of a pizza, Lee ate $\frac{5}{6}$ of the same pizza. Who ate more?
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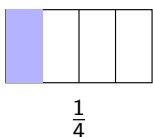
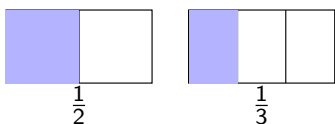
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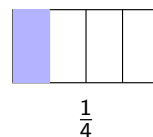
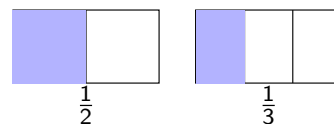
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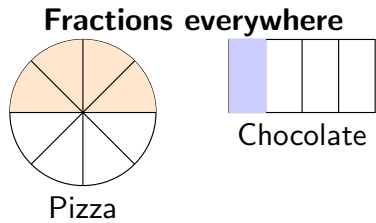
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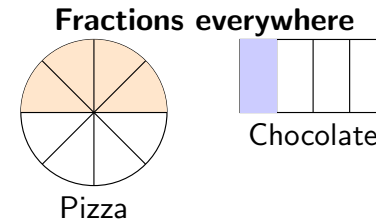
Starter 4



Questions

1. A cake is cut into 10 equal slices. If 3 are eaten, what fraction remains? ____.
2. There are 30 students. $\frac{2}{5}$ walk to school. How many walk?
3. A ruler is 24 cm long. Mark $\frac{1}{2}$ and $\frac{1}{3}$ on it. How many cm is each?
4. Which is longer: $\frac{3}{4}$ of an hour or $\frac{2}{3}$ of an hour? (1 hour = 60 mins)
5. You have \$30. You spend $\frac{2}{5}$ on a book. How much do you spend? How much left?

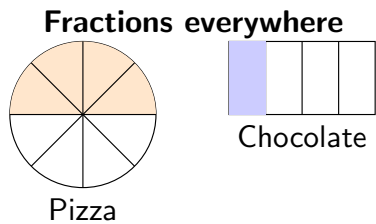
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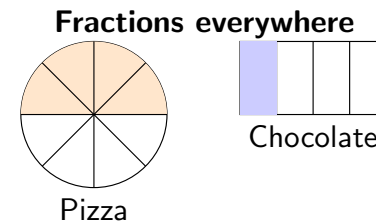
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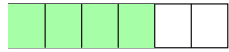
Starter 4



Questions

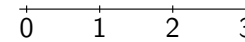
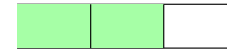
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Starter 5



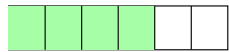
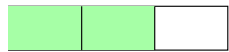
- $\frac{1}{2} = \frac{?}{6}$
- Write the fraction represented by each bar. (Extension) show that they are equivalent
- $\frac{5}{6} = \frac{10}{?}$
- Mark $1\frac{2}{3}$ and $2\frac{1}{2}$ on the number line. Convert each to an improper fraction.
- $\frac{2}{3} = \frac{?}{12}$
- Which are equivalent to $\frac{3}{7}$:
 $\frac{9}{21}, \frac{6}{14}, \frac{12}{28}, \frac{8}{21}$?
- Write 3 fractions equivalent to $\frac{4}{9}$
- Compare ($< > =$) these fractions:
 $\frac{2}{5} \square \frac{6}{15}$
- Fully simplify $\frac{48}{18}$

Starter 5



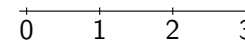
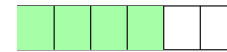
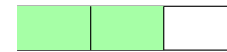
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Starter 5



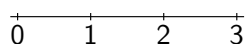
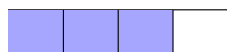
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Starter 6



1. $\frac{3}{5} = \frac{?}{20}$

2. Write the fraction shown by each bar. (Extension) Explain why they represent the same amount.

3. $\frac{4}{7} = \frac{?}{21}$

4. Mark $1\frac{3}{4}$ and $2\frac{2}{3}$ on the number line. Convert both to improper fractions.

6. Which are equivalent to $\frac{5}{9}$:
 $\frac{10}{18}$, $\frac{15}{27}$, $\frac{12}{20}$, $\frac{25}{45}$?

7. Write 3 fractions equivalent to $\frac{7}{12}$.

8. Order these fractions in ascending order:

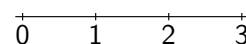
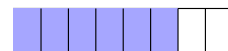
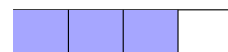
$$\frac{2}{8}, \frac{4}{6}, \frac{5}{12}$$

9. Compare using $<$, $>$, or $=$:

$$\frac{9}{14} \square \frac{19}{28}$$

42

Starter 6



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2. Write the fraction shown by each bar. (Extension) Explain why they represent the same amount.

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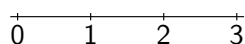
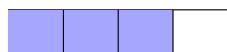
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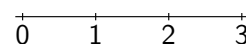
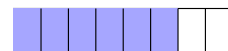
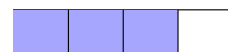
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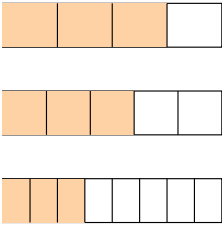
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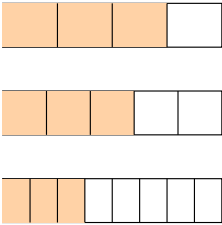
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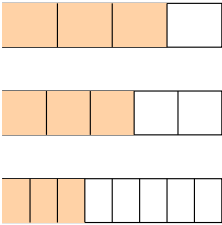
Starter 7



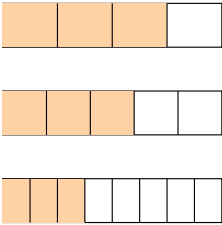
Starter 7



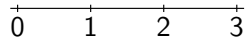
Starter 7



Starter 7



Starter 8



- Write the improper fraction shown by the diagram.
- Write the mixed number represented by the green bars in the diagram.
- Mark $1\frac{1}{4}$ and $2\frac{3}{4}$ on the number line.

- Convert: $\frac{13}{5}$ to a mixed number.

- Convert:

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

to an improper fraction.

- Fully simplify:

$$\frac{16}{40}$$

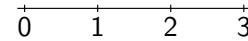
- Which is greater:

$$\frac{4}{9} \square \frac{4}{11}$$

- Order from smallest to largest:

$$\frac{6}{5}, 1\frac{1}{2}, \frac{7}{4}$$

Starter 8



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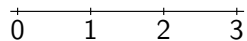
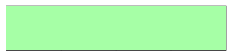
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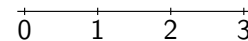
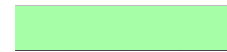
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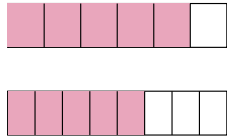
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Starter 9

1. Write the fractions shown by the bars.



2. Which is larger:

$$\frac{5}{6} \square \frac{5}{8}$$

3. Write 3 fractions equivalent to:

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

4. Fully simplify:

$$\frac{54}{72}$$

5. Convert to mixed numbers:

6. Convert to improper fractions:

$$4\frac{1}{3}, 2\frac{5}{6}$$

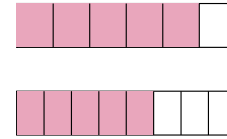
7. Order from smallest to largest:

$$\frac{123}{1234}, \frac{321}{1234}, \frac{111}{1234}$$

8. Challenge:
Which is larger?

Starter 9

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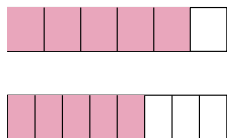
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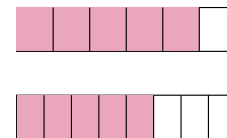
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