

Fractions: Of Amounts & Multiplying

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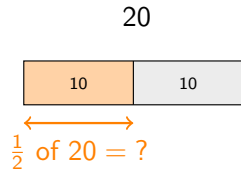
Fractions: Of Amounts & Multiplying

Retrieve and Connect

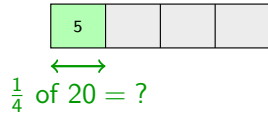
1. Fully simplify: $\frac{18}{24}$

2. Calculate: $2\frac{1}{3} + 1\frac{1}{2}$

3. Using the bar models to the left:



$\frac{1}{2}$ of 20 = $\frac{1}{4}$ of 20 = $\frac{3}{4}$ of 20 =



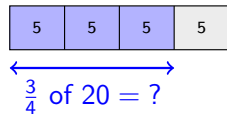
4. Calculate:

$\frac{1}{3}$ of 24 $\frac{2}{3}$ of 24

5. Fill in the blank: $\frac{3}{4}$ of $\underline{\hspace{1cm}}$ = 18

6. Find $\frac{2}{5}$ of 35.

7. Amy cuts a 60 cm ribbon and takes $\frac{3}{4}$ of it. How long is her piece?



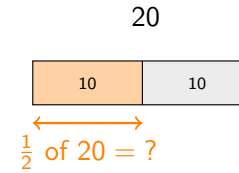
8. True or false? " $\frac{1}{2}$ of 30 = 30 $\div$ 2." Explain your reasoning.

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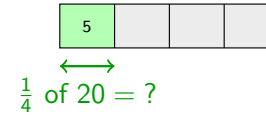
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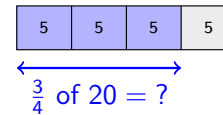
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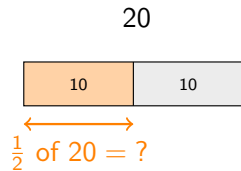
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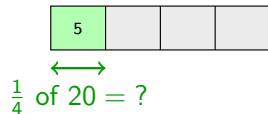
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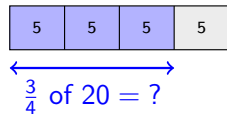
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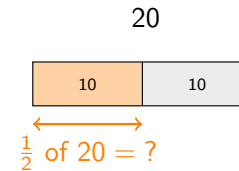
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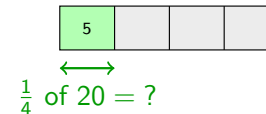
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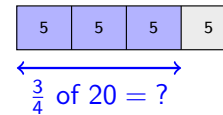
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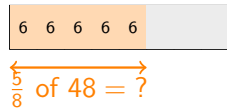
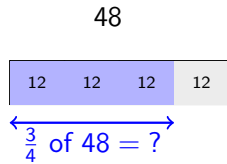
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1. Order smallest to largest: $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{12}$

2. Convert $\frac{17}{5}$ to a mixed number.

3. Use the bar model to find $\frac{3}{4}$ of 48 and $\frac{5}{8}$ of 48.



4. Calculate: $\frac{5}{8}$ of 72

5. $\frac{2}{3}$ of a class of 30 are girls. How many boys are there?

6. Rania says " $\frac{3}{5}$ of 40 = 24". Is she correct? Show your working.

7. Which is greater:
 $\frac{3}{4}$ of 60 or $\frac{4}{5}$ of 55?

8. Fill in the blank:

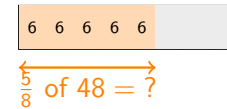
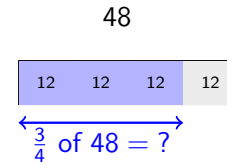
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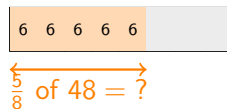
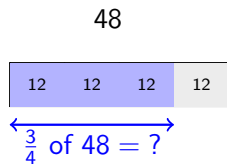
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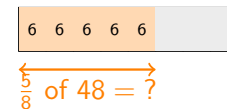
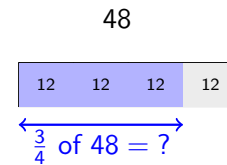
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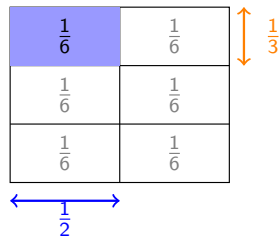
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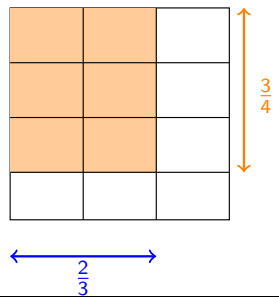


2. Use the area model on the left to calculate $\frac{1}{2} \times \frac{1}{3} = \frac{\quad}{\quad}$

3. Use the second area model to calculate and simplify:
 $\frac{2}{3} \times \frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. Calculate:

$$\frac{3}{5} \times \frac{5}{7}$$



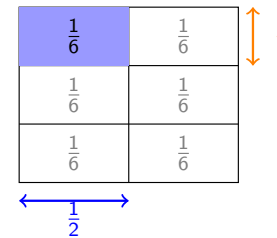
5. Simplify *then* multiply: $\frac{3}{9} \times \frac{4}{8}$

6. Find $\frac{3}{4}$ of $\frac{2}{5}$. What do you notice about "of" and "×"?

7. Calculate: $1\frac{1}{2} \times \frac{1}{2}$

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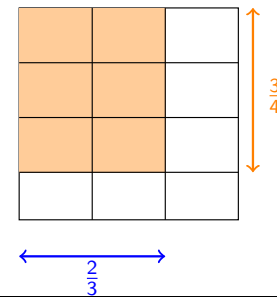


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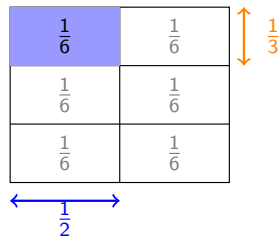
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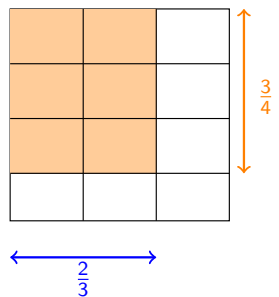


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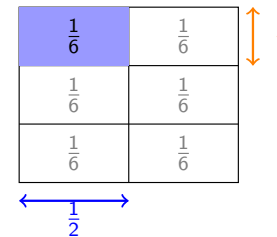
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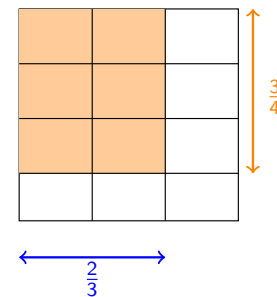


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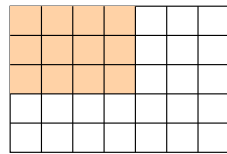
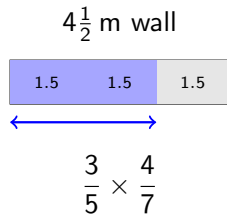
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1. Simplify: $\frac{24}{36}$
2. $3\frac{1}{4} - 1\frac{2}{3}$
3. $\frac{5}{6}$ of 42

4. A wall is $4\frac{1}{2}$ m long. A mural covers $\frac{2}{3}$ of it. Use the bar model to find the length of the mural.



5. Use the area model to calculate: $\frac{3}{5} \times \frac{4}{7} = \frac{\quad}{\quad}$

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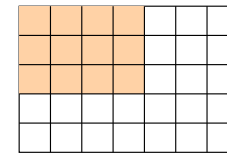
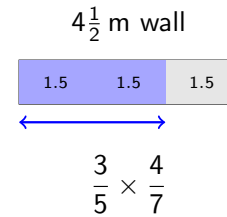
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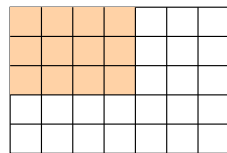
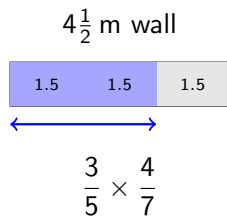
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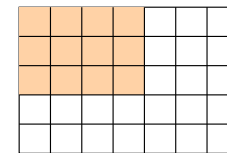
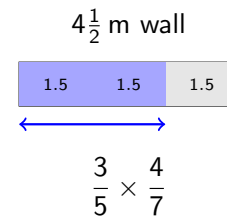
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1. Simplify: $\frac{20}{30}$ 2. Simplify: $\frac{84}{108}$



3. Convert $4\frac{3}{5}$ to an improper fraction.

4. Calculate: $2\frac{3}{4} + 1\frac{3}{5}$

5. $\frac{3}{4}$ of a number is 27. Use the bar model to find the whole number.

6. Jack spends $\frac{1}{3}$ of his pocket money on Monday and $\frac{1}{4}$ on Tuesday. What fraction remains?

7. A jug holds $1\frac{1}{2}$ litres. You fill $\frac{2}{3}$ of it. How many millilitres is that?

8. Show that $\frac{2}{3} \times \frac{3}{4} = \frac{3}{4} \times \frac{2}{3}$ using area diagrams.

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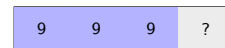
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