

Fractions: Of Amounts & Multiplying

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Starter

1. Fully simplify: $\frac{18}{24}$ 2. Calculate: $2\frac{1}{3} + 1\frac{1}{2}$

3. Using the bar models to the left:

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

4. Calculate:

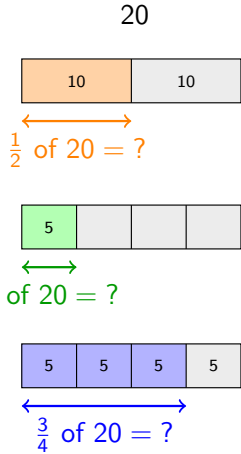
$$\frac{1}{3} \text{ of } 24 \quad \frac{2}{3} \text{ of } 24$$

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

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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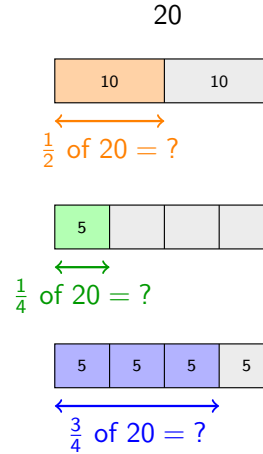
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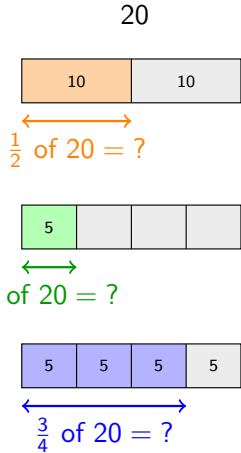
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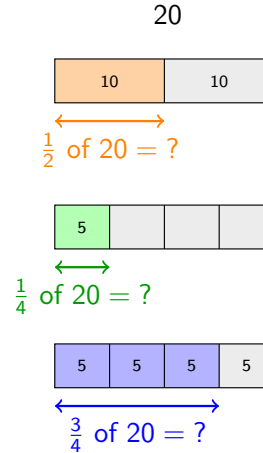
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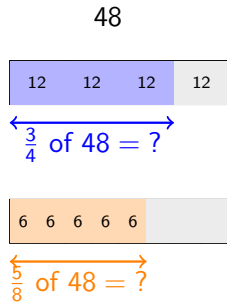
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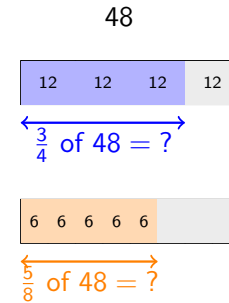
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- Order smallest to largest: $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{12}$
- Convert $\frac{17}{5}$ to a mixed number.
- Use the bar model to find $\frac{3}{4}$ of 48 and $\frac{5}{8}$ of 48.
- Calculate: $\frac{5}{8}$ of 72
- $\frac{2}{3}$ of a class of 30 are girls. How many boys are there?
- Rania says " $\frac{3}{5}$ of 40 = 24". Is she correct? Show your working.
- Which is greater:
 $\frac{3}{4}$ of 60 or $\frac{4}{5}$ of 55?
- Fill in the blank:
 $\frac{\quad}{8}$ of 64 = 40



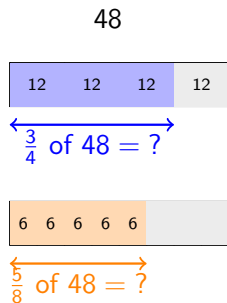
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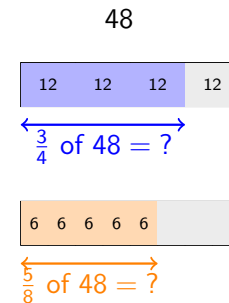
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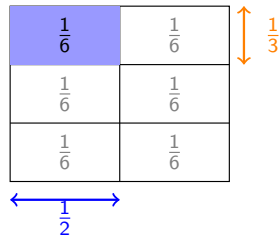
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1. What is $\frac{1}{2}$ of $\frac{1}{2}$? Draw a picture to show your answer.

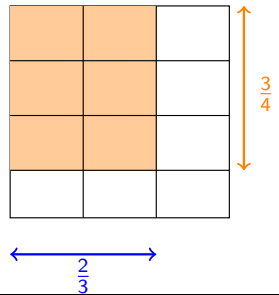


2. Use the area model on the left to calculate $\frac{1}{2} \times \frac{1}{3} = \frac{\quad}{\quad}$

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:

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



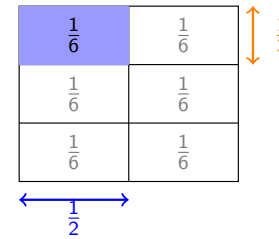
5. Simplify *then* multiply: $\frac{3}{9} \times \frac{4}{8}$

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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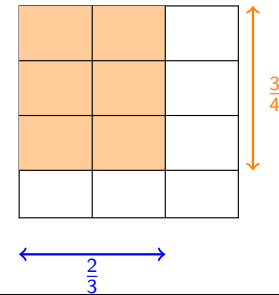


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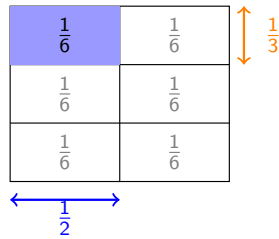
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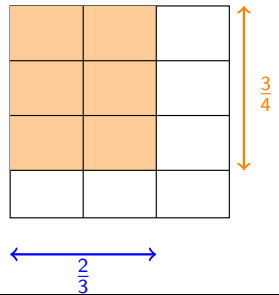


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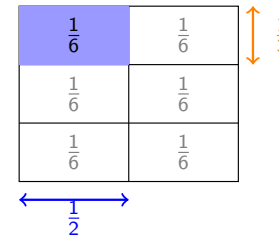
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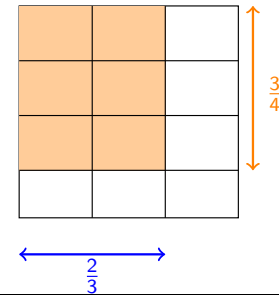


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1. Simplify: $\frac{24}{36}$
2. $3\frac{1}{4} - 1\frac{2}{3}$
3. $\frac{5}{6}$ of 42

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.

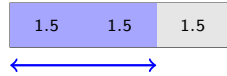
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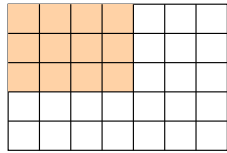
7. Fill in the blank: $\frac{3}{5} \times \frac{\quad}{\quad} = \frac{6}{35}$ two proper fractions always gives a smaller result than either fraction." Explain or give a counterexample.

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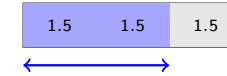
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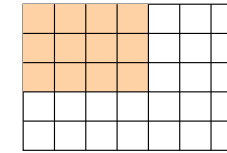
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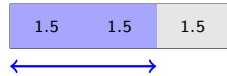
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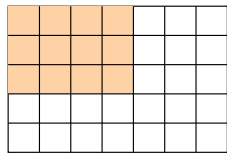
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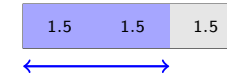
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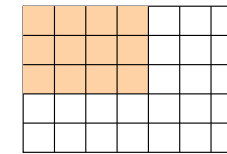
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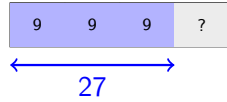
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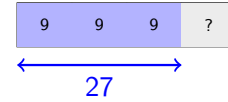


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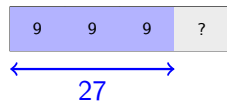
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5. $\frac{3}{4}$ of a number is 27. Use the bar model to find the whole number.
6. Jack spends $\frac{1}{3}$ of his pocket money on Monday and $\frac{1}{4}$ on Tuesday. What fraction remains?
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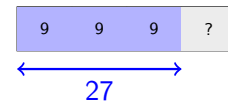
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