Maths Mastery Divide Proper Fractions by Whole Numbers

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Divide

Find the answers to the following:

$$\frac{1}{3} \div 5 = \frac{5}{6} \div 5 = \frac{3}{4} \div 7 = \frac{4}{7} \div 3 = \frac{1}{2} \div 50 =$$

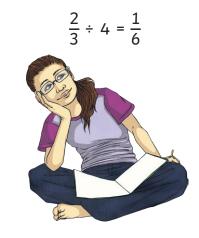
$$\frac{4}{5} \div 3 = \frac{7}{10} \div 4 = \frac{3}{10} \div 12 = \frac{7}{15} \div 5 = \frac{1}{50} \div 2 =$$

$$\frac{7}{8} \div 4 = \frac{2}{3} \div 9 = \frac{11}{12} \div 8 = \frac{1}{10} \div 14 =$$

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Explain

Explain, using visual representations, why:



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Same Answer

Explain, using visual representations, why:

$$\frac{1}{3} \div 5 = \frac{1}{5} \div 3$$

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Colouring Pencils

A teacher divides a box of pencils so one group has $\frac{3}{5}$ of the pencils and another has $\frac{2}{5}$ of the pencils.

The first group has **6** children. The second group has **4** children.

Each group divided their pencils equally among the children in the group. In which group do the children have the biggest fraction of all the pencils?



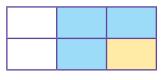
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Explain **Answers**

Explain, using visual representations, why:

$$\frac{2}{3} \div 4 = \frac{1}{6}$$

 $\frac{2}{3}$ can be drawn as $\frac{4}{6}$



 $\frac{4}{6} \div 4 = \frac{1}{6}$

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Divide Answers

Find the answers to the following:

 $\frac{1}{3} \div 5 = \frac{1}{15} \qquad \frac{5}{6} \div 5 = \frac{1}{6} \qquad \frac{3}{4} \div 7 = \frac{3}{28} \qquad \frac{4}{7} \div 3 = \frac{4}{21} \qquad \frac{1}{2} \div 50 = \frac{1}{100}$ $\frac{4}{5} \div 3 = \frac{4}{15} \qquad \frac{7}{10} \div 4 = \frac{7}{40} \qquad \frac{3}{10} \div 12 = \frac{1}{40} \qquad \frac{7}{15} \div 5 = \frac{7}{75} \qquad \frac{1}{50} \div 2 = \frac{1}{100}$ $\frac{7}{8} \div 4 = \frac{7}{32} \qquad \frac{2}{3} \div 9 = \frac{2}{27} \qquad \frac{11}{12} \div 8 = \frac{11}{96} \qquad \frac{1}{10} \div 14 = \frac{1}{140}$ **RECENT STUDIES**

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Same Answer Answers

Explain, using visual representations, why:

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Colouring Pencils

A teacher divides a box of pencils so one group has $\frac{3}{5}$ of the pencils and another has $\frac{2}{5}$ of the pencils.

The first group has 6 children. The second group has 4 children.

Each group divided their pencils equally among the children in the group. In which group do the children have the biggest fraction of all the pencils?

 $\frac{3}{5} \div 6 = \frac{3}{30} = \frac{1}{10} \qquad \qquad \frac{2}{5} \div 4 = \frac{2}{20} = \frac{1}{10}$

They each have the same fraction of all the pencils.

What do you know about how many pencils there are altogether?

Must be a multiple of 10 to be divided into tenths.

Write your own problem that must be solved by dividing fractions by a whole number. Ask a partner to solve it.

