

To be able to find a fraction of an amount (1)

MathShed

Starter:
Which one does not belong?



Explain your answer.

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Activity 1:
Circle $\frac{1}{3}$ of the cubes below.



The whole amount is __.

__ cubes have been circled

$\frac{1}{3}$ of __ = __.

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Activity 2:
Draw stars in the bar model below to help you find $\frac{1}{2}$ of 10.

$\frac{1}{2}$ of 10 = __

Draw stars in the bar model below to help you find $\frac{1}{3}$ of 18.

$\frac{1}{3}$ of 18 = __

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Activity 3:
Complete the table below.

| fraction | division rule | example | illustration |
|---------------|---------------|-------------------------|---|
| $\frac{1}{2}$ | divide by 2 | $\frac{1}{2}$ of 10 = 5 |  |
| $\frac{1}{3}$ | | | |
| $\frac{1}{4}$ | | | |

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Activity 4:
Use mathematical equipment and bar models to help you find the following:

$\frac{1}{3}$ of 96 = __

$\frac{1}{4}$ of 88 = __

$\frac{1}{5}$ of 55 = __

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Activity 5:
Complete the number sentences below.

$\frac{1}{2}$ of __ = 23

$\frac{1}{3}$ of __ = 22

$\frac{1}{4}$ of __ = 15

$\frac{1}{5}$ of __ = 70

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Activity 6:

Which is heavier?

$\frac{1}{5}$ of 70 kg

$\frac{1}{3}$ of 48 kg

Explain your answer.

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Activity 7:

Jamal says, "I have one third of 36 cubes."

Ruth says, "I have a quarter of 36 cubes."

Yasmin says, "I have 10 cubes."

Put the friends in order, starting with the person with the fewest cubes and finishing with the person with the most cubes.

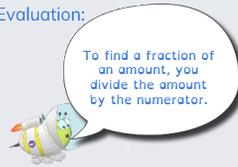
Provide your working out to explain your answer.

Express the combined amount of cubes they have as a fraction over 36.

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Evaluation:



Do you agree?

Provide examples to explain your answer.