I can find a fraction of an amount

*Part 1 – Use the bar model to solve the calculations of a single fraction*

*What is the rule for finding a single fraction of an amount?*

*The whole number divided by the denominator.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ |

**25*****Share 25 into 5 equal parts******25÷5=5******Find*** $\frac{1}{5}$ ***of 25 = 5***  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

**36*****Share 36 into 6 equal parts******Find*** $\frac{1}{6}$ ***of 36=*** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

**42*****Share 42 into 7 equal parts******Find*** $\frac{1}{7}$ ***of 42m=*** |
|

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| --- | --- | --- | --- | --- |
|  | **?** |  |  |  |

**40*****Share 40 into 5 equal parts******Find*** $\frac{1}{5}$ ***of 40mm =*** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **?** | **?** |  |  |  |

**54*****Share 54 into 6 equal parts******Find*** $\frac{1}{6}$ ***of 54l =*** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **?** | **?** | **?** |  |  |  |  |  |

**63*****Share 63 into 9 equal parts******Find*** $\frac{1}{9}$ ***of 63cm =*** |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **?** | **?** | **?** | **?** |  |  |  |

**64*****Share 64 into 8 equal parts******Find*** $\frac{1}{8}$ ***of 64kg =*** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **?** | **?** | **?** | **?** | **?** |  |

**77*****Share 77 into 7 equal parts******Find*** $\frac{1}{7}$ ***of 77g =*** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **?** | **?** | **?** | **?** |  |  |  |  |

**81*****Share 81 into 9 equal parts******Find*** $\frac{1}{9}$ ***of 81 =*** |

Part 2 –

What is the rule for finding a fraction of an amount?

The whole number divided by the denominator and multiplied by the numerator.

(Hint: you may need to use division for the last few!)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ | $$\frac{1}{5}$$ |

**45*****Share 45 into 5 equal parts******45÷5=9******9 x 3 = 27******Find*** $\frac{3}{5}$ ***of 45 = 27***  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

**42*****Share 42 into 6 equal parts******Find*** $\frac{4}{6}$ ***of 42g*** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

**49*****Share 49 into 7 equal parts******Find*** $\frac{3}{7}$ ***of 49kg*** |
|

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |

**55*****Share 55 into 5 equal parts******Find*** $\frac{4}{5}$ ***of 55l*** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

**72*****Share 72 into 6 equal parts******Find*** $\frac{5}{6}$ ***of 72ml*** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |

**90*****Share 90 into 9 equal parts******Find*** $\frac{4}{9}$ ***of 90*** |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **?** | **?** |  |  |  |

**104*****Share 104 into 8 equal parts******Find*** $\frac{3}{8}$ ***of 104m*** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **?** |  |

**98*****Share 98 into 7 equal parts******Find*** $\frac{5}{7}$ ***of 98mm*** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **?** | **?** | **?** |  |  |  |  |

**144*****Share 144 into 9 equal parts******Find*** $\frac{2}{9}$ ***of 144cm*** |

Draw a bar model to help you calculate:

$\frac{4}{5}$ of 100m

$\frac{3}{7}$ of 210kg

Part 3-

Challenge 1:



*Write a problem that could match the bar model.*

Challenge 2:

To find the area of each colour in the rectangle we need to:

|  |  |
| --- | --- |
|  |  |
|  |  |

Area is 6cm x 4cm = 24 cm²

**Blue**

$\frac{2}{4}$ of 24cm = 24cm ÷ 4 = 6cm

6cm x 2 = 12 cm²

**Red**

$\frac{2}{4}$ of 24cm = 24cm ÷ 4 = 6cm

6cm x 2 = 12 cm²

6cm

4cm

Find the area of each colour in the rectangle:

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

Area = 6cm x 4cm = 24 cm²

**Blue**

$\frac{}{6}$ of 24 =

**Red**

$\frac{}{6}$ of 24 =

4cm

6cm

Find the area of each colour in the rectangle:

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

Area = 12cm x 8cm = \_\_\_\_ cm²

Blue

$\frac{}{8}$ of \_\_\_\_ =

Red

$\frac{}{8}$ of \_\_\_\_ =

8cm

12cm

***Find the area of each colour in the rectangle:***

12cm

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Area = 12cm x 15cm = \_\_\_\_ cm²

**Blue**

$\frac{}{12}$ of \_\_\_\_ =

**Red**

$\frac{}{12}$ of \_\_\_\_ =

**Green**

$\frac{}{12}$ of \_\_\_\_ =

15cm