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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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  |   **25**  ***Share 25 into 5 equal parts***  ***25÷5=5***  ***Find of 25 = 5*** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |   **36**  ***Share 36 into 6 equal parts***  ***Find of 36=*** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |   **42**  ***Share 42 into 7 equal parts***  ***Find of 42m=*** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **?** |  |  |  |   **40**  ***Share 40 into 5 equal parts***  ***Find of 40mm =*** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **?** | **?** |  |  |  |   **54**  ***Share 54 into 6 equal parts***  ***Find of 54l =*** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **?** | **?** | **?** |  |  |  |  |  |   **63**  ***Share 63 into 9 equal parts***  ***Find of 63cm =*** |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | **?** | **?** | **?** | **?** |  |  |  |   **64**  ***Share 64 into 8 equal parts***  ***Find of 64kg =*** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **?** | **?** | **?** | **?** | **?** |  |   **77**  ***Share 77 into 7 equal parts***  ***Find of 77g =*** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **?** | **?** | **?** | **?** |  |  |  |  |   **81**  ***Share 81 into 9 equal parts***  ***Find 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!)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  |   **45**  ***Share 45 into 5 equal parts***  ***45÷5=9***  ***9 x 3 = 27***  ***Find of 45 = 27*** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |   **42**  ***Share 42 into 6 equal parts***  ***Find of 42g*** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |   **49**  ***Share 49 into 7 equal parts***  ***Find of 49kg*** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  |   **55**  ***Share 55 into 5 equal parts***  ***Find of 55l*** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |   **72**  ***Share 72 into 6 equal parts***  ***Find of 72ml*** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |   **90**  ***Share 90 into 9 equal parts***  ***Find of 90*** |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  | **?** | **?** |  |  |  |   **104**  ***Share 104 into 8 equal parts***  ***Find of 104m*** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  | **?** |  |   **98**  ***Share 98 into 7 equal parts***  ***Find of 98mm*** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  | **?** | **?** | **?** |  |  |  |  |   **144**  ***Share 144 into 9 equal parts***  ***Find of 144cm*** |

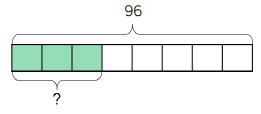
Draw a bar model to help you calculate:

of 100m

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**

of 24cm = 24cm ÷ 4 = 6cm

6cm x 2 = 12 cm²

**Red**

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**

of 24 =

**Red**

of 24 =

4cm

6cm

Find the area of each colour in the rectangle:

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

Area = 12cm x 8cm = \_\_\_\_ cm²

Blue

of \_\_\_\_ =

Red

of \_\_\_\_ =

8cm

12cm

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

12cm

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

Area = 12cm x 15cm = \_\_\_\_ cm²

**Blue**

of \_\_\_\_ =

**Red**

of \_\_\_\_ =

**Green**

of \_\_\_\_ =

15cm