Using 6ths \& 7ths. Stg E6/6 props \& rats Name: $\qquad$
OK, truth time. It's been long enough, you're not a baby anymore, someone has to tell you: The best way, without question, to learn how to find fractions of numbers is to learn and remember your basic facts. There you have it. So let's play with some fractions based on facts we already know.
E.g. $3 \times 6=18.18 \div 6=3$. So then $1 / 6$ of $18=3$.

| 1. $3 \times 6=$ | $18 \div 6=$ |
| :---: | :---: |
| 2. $4 \times 7=$ | $28 \div 7=$ |
| 3. $8 \times 6=$ | $48 \div 6=$ |
| 4. $9 \times 7=$ | $63 \div 7=$ |
| 5. $5 \times 6=$ | $30 \div 6=$ |
| 6. $3 \times 7=$ | $21 \div 7=$ |
| 7. $4 \times 6=$ | $24 \div 6=$ |
| 8. $6 \times 7=$ | $42 \div 7=$ |
| 9. $9 \times 6=$ | $54 \div 6=$ |
| 10. $7 \times 7=$ | $49 \div 7=$ |

So then $1 / 6$ of $18=$ So then $1 / 7$ of $28=$ So then $1 / 6$ of $48=$ So then $1 / 7$ of $63=$ So then $1 / 6$ of $30=$ $\qquad$ So then $1 / 7$ of $21=$ $\qquad$ So then $1 / 6$ of $24=$ $\qquad$ So then $1 / 7$ of $42=$ $\qquad$ So then $1 / 6$ of $54=$ $\qquad$ So then $1 / 7$ of $49=$ $\qquad$
$\qquad$
How to find a sixth or seventh of any number. Finding any unit fraction is the same as dividing - we can use standard form fast long division. So, let's have a go at finding a sixth or seventh of these interesting numbers. Remember to keep your place value, look out for decimals!
a. $6 \longdiv { 7 8 . 4 2 }$
b. $7 \longdiv { 1 0 . 5 0 }$
c. $6 \longdiv { 4 5 6 . 6 }$
d. $7 \longdiv { 3 . 0 0 3 }$
e. $6 \longdiv { 5 2 2 8 4 }$
f. $7 \longdiv { 3 9 6 6 2 }$
g. $6 \longdiv { 4 8 2 5 7 9 9 }$
h. $7 \longdiv { 3 1 . 6 4 }$
i. $6 \longdiv { 1 8 . 1 8 }$
j. $7 \longdiv { 6 5 . 3 1 }$
k. $6 \longdiv { 2 . 0 3 4 }$

All well and good, I hear you say, but what if I need 2 sixths of any number? Or 5 sevenths? Well, there is a solution. To find 2 sixths for example, all you have to do is double the answer to 1 sixth! E.g:

$$
391 \longrightarrow 391 \text { One sixth of } 2346 \text { is } 391,391 \times 2=782-\text { to find } 3 \text { sixths simply }
$$

$$
6 \longdiv { 2 3 5 4 } \frac { x 2 } { = 7 8 2 }
$$ multiply by 3 , or 4 sixths - multiply by 4 .

Now for the bit you've all been looking forward to... the nasty ones! - take your time!

I. Find $2 / 7$ of $9 1 . 7 \quad 7 \longdiv { 9 1 . 7 } \frac { \mathrm { x } \quad 2 } { = } \quad \begin{array} { l } { \text { Write out these ones in your } } \\ { \text { maths book: } } \end{array}$

1. Find $2 / 6$ of 1680
II. Find $\mathbf{5 / 6}$ of 70.92

2. Find $3 / 7$ of 37.373
3. Find $4 / 6$ of 7092
4. Find $2 / 7$ of 5.684
5. Find $3 / 6$ of 7404
6. Find $4 / 7$ of 77.035
7. Find $2 / 6$ of 1926
8. Find $3 / 7$ of 47.67

Stuck on the multiplication? Check out this video on You Tube:
https://youtu.be/3myNAdk6a4|
9. Find $4 / 6$ of 3702
10. Find $2 / 7$ of 94.99


Useless factoid: To be "at sixes and sevens" is a British saying used to describe a state of confusion or disarray.

