Name:

How to find a third of any number. Finding a third is the same as dividing by 3

Easily the most efficient way to divide big numbers by 3 is to use the fast long division standard form shown below. Once you have practiced and mastered this method you are set: Try chopping 59.4 into thirds:

- Look at numbers that can be divided by 3, starting on the left. The '5' in the 10s column can fit 1 3 with 2 left over. Put the '1' above on the answer line,
 Put the leftover 2 beside the 9 to make 29
 29 ÷ 3 = 9 r2 Put the '9' above on the answer line
 - 4. Put the **r1** in the 10ths column on the left of the 4, to make '24'
 - 5. $24 \div 3 = 8$. Put the '8' in the 10ths place on the answer line Answer: 19.8

You've seen this before?

3)5²9.²4

9.8

Yes, it's very much like the other types of division you know already – you can use the same idea with any fractions actually. So, let's have a go at finding a third of these interesting numbers. Keep your place value!



All well and good, I hear you say, but what if I need 2 thirds of any number? Hmm, What then smarty pants? Well, here is the good news: to find 2 thirds, all you have to do is double the answer to 1 third! E.g:

$$7 8 2 \longrightarrow 7 8 2$$

$$3) 2 3^{2} 4 6 = \frac{x}{1564}$$

$$(one third of 2346 is 782, 782 x 2 = 1564)$$

Well, if it's that easy, we should all just try some then! Yes. Yes you should.

Handy tip: % of any number is 33.33%. % of any number is 66.67%

I. Find $\frac{2}{3}$ of 99.6 $3)99.6 \times 2$ = II. Find $\frac{2}{3}$ of 71.43 $3)71.43 \times 2$ = III. Find $\frac{2}{3}$ of 2.070 $3)2.070 \times 2$

Write out these ones in your maths book:

- 1. Find ⅔ of 1683
- 2. Find ⅔ of 37.374
- 3. Find ⅔ of 7092
- 4. Find ⅔ of 5.691
- 5. Find ⅔ of 7404
- 6. Find ⅔ of 77.037
- 7. Find ⅔ of 2082
- 8. Find ⅔ of 47.70
- 9. Find ⅔ of 3702

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