Finding fractions of amounts. NAME……………………………

To find ½ of something, divide by 2.

To find 1/3 of something, divide by 3.

To find 1/8 of something, divide by 8.

Get the idea?

Example – 1/5 of 30 is 30 ÷ 5 Count in 5s until you get to 30. Answer is 6.

Try these. Find…..

1. 1/3 of 18 =
2. 1/5 of 35 =
3. ¼ of 32 =
4. 1/8 of 40 =
5. 1/6 of 42 =
6. 1/9 of 54 =
7. 1/3 of 33 =
8. 1/6 of 48 =
9. 1/8 of 72 =
10. 1/10 of 110 =
11. 1/9 of 45 =
12. 1/12 of 60 =
13. 1/11 of 121 =

Finding fractions, continued. NAME …………………………..

To find 2/3 (two thirds) of something, find 1/3 first by dividing by **3**. Now multiply by **2** because we want **two** thirds.

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| --- |
| 12 |
| 1/3 | 1/3 | 1/3 |

So, 1/3 of 12 is 12 ÷ 3 which is 4.

Now 2/3 of 12 means we multiply 4 by 2 which is 8.

2/3 of 12 = 8.

**We divide by the denominator (bottom) and multiply by the numerator (top).**

Find…..

1. ¾ of 16 = (16 ÷ 4) x 3 = 4 x 3 = 12
2. 2/5 of 15 =
3. 2/7 of 14 =
4. 3/5 of 20 =
5. ¾ of 24 =
6. 2/3 of 15 =
7. 2/9 of 27 =
8. 1/6 of 30 =
9. 3/7 of 21 =
10. 5/8 of 32 =

Multiplying by 10, 100, 1000

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|  |  |  |  | 2 | 6 | 0 |  |  |
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|  |  |  |  |  | 5 | 8 |  |  |
|  |  |  | 5 | 8 | 0 | 0 |  |  |
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Reminder – To multiply by 10, each digit moves up in value 1 place. (To the left)

To multiply by 100, each digit moves up in value 2 places.

To multiply by 1000, each digit moves up in value 3 places.

Examples (see lace value grid) – 26 x 10 = 260 The 2 moves from the tens to the hundreds and the 6 from the 1s to the tens.

58 x 100 = 5800

Try these:

1. 45 x 10 =
2. 62 x 100 =
3. 71 x 10 =
4. 93 x 1000 =
5. 218 x 100 =
6. 341 x 10 =
7. 2184 x 100 =
8. 356 x 1000 =
9. 2.3 x 10 =
10. 4.9 x 100 =
11. 5.1 x 1000 =
12. 3.87 x 100 =
13. 2.05 x 10 =

Missing numbers

1. ? x 10 = 450
2. ? x 10 = 610
3. ? x 10 = 2380
4. ? x 10 = 76380
5. ? x 100 = 2300
6. ? x 100 = 3600
7. ? x 100 = 54800
8. ? x 100 = 72900
9. 567 x ? = 56700
10. 291 x ? = 2910
11. 728 x ? = 728000

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| M | HTh | TTh | Th | H | T | 1s | t | h |
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Extension - Create some questions yourself.

Make up a number – a whole number up to millions or a decimal number to 2 or 3 places after the decimal point.

Choose a multiplication: x10, 100, 1000 or beyond or even x0.1, x 0.01.

Write it out and work out the answer.