

multiply

A factor is a number that divides into

4 5 10 20

another number exactly, without leaving a remainder.

1 4 6 8 9 10

72 74 75 76 77 78 80 81 82

groups of lots of

The factors of 20 are 1, 2, 4, 5, 10 and 20.

Factors of 6

84 85 86 87 88 90 91 92 93 94

2

95 96 98 99 100

6

1 3

times

divide

15

share

5

Factors of 15

12 14 15 16 18 20 21 22

remainder

20

The factor pairs are:

1 and 20

2 and 10

4 and 5

24 25 26 27 28 30 32 33 34

35 36 38 39 40 42 44 45 46

48 49 50 51 52 54 55 56 57 58

60 62 63 64 65 66 68 69 70

A common factor is a factor of 2 or more numbers.



factor



multiple

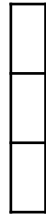
$2^2 = 4$

product



$2 \times 2 = 4$

$2 \times 2 \times 2 = 8$



$5^2 = 25$

$5 \times 5 = 25$



$5^3 = 125$

$5 \times 5 \times 5 = 125$

$8 \times 9 = 72 \quad 80 \quad 72 \div 9 = 8 \quad 720$

$\times 9 = 720$

$\div 9 = 80$

$\times 8 = 720$

$72 \div 8 = 9 \quad 720$

$9 \times 8 = 72 \quad 90 \div 8 = 90$

$2^3 = 8$

$2543 \times 7 = 17801$

$\times 7 \quad \mathbf{17801} \quad \substack{1332}$



Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

$2543 \times 67 = 170381$

		2	5	4	$\substack{3152580}{1321}$
	\times	7	8	6	$\mathbf{170381} \quad \substack{11}$
		₃	₃		7
	1			0	
	₁			₂	

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

$136 \div 4 = 34$

4	1	3	4
		3	6

-	1	2	0
		1	6

-	1	6
		0



3	8
5	2

1	1
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4
2

	2	
--	---	--

4 1 5 2

$$28 \div 5 = 5 \text{ remainder } 3$$

If your calculation has a remainder,
 4×4

$$30 \times 4$$

remember to record it in the answer
 using the letter **r**.

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$$15 \div 4 = 3 \text{ remainder } 3$$

Remember to regroup any remainders and move them into the next column.