

USING FACTORS TO MULTIPLY 2 DIGIT NUMBERS TOGETHER

A total of 20 = 10×2 or 4×5

18×20 can be solved by multiplying $18 \times 2 \times 10$

$$18 \times 2 = 36$$

$$36 \times 10 = 360$$

$$\text{Therefore } 18 \times 20 = 360$$

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Multiply these numbers using factors to help. Remember to first think what the answer might be (estimation) and use this to help you decide whether your calculation is correct.

$$21 \times 20 =$$

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$$43 \times 20 =$$

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$$28 \times 20 =$$

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$$22 \times 20 =$$

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$$52 \times 20 =$$

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$$73 \times 20 =$$

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$$81 \times 20 =$$

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Use the same formula to solve the following:

$$25 \times 40 = 25 \times 4 = 100 \quad 100 \times 10 = 1000$$

This could be solved by using factors to split the 4 up as well:

$$25 \times 40 = 25 \times 2 \times 2 \times 10 = 25 \times 2 = 50 \quad 50 \times 2 = 100 \quad 100 \times 10 = 1000$$

$$13 \times 40 =$$

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$$18 \times 40 =$$

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$$21 \times 40 =$$

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$$25 \times 40 =$$

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USING FACTORS TO MULTIPLY 2 DIGIT NUMBERS TOGETHER

A total of 24 = 6 x 4 or 8 x 3 or 12 x 2

18 x 24 can be solved by multiplying 18 x 6 x 4 or 18 x 8 x 3 or 18 x 2 x 12

18 x 6 x 4 can be split even more using factors:

$$18 \times 2 \times 3 \times 2 \times 2 = 432$$

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Multiply these numbers using factors to help. Remember to first think what the answer might be (estimation) and use this to help you decide whether your calculation is correct.

$$17 \times 15 =$$

$$21 \times 15 =$$

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$$26 \times 15 =$$

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$$28 \times 15 =$$

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$$39 \times 15 =$$

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$$45 \times 18 =$$

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$$39 \times 18 =$$

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$$57 \times 18 =$$

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$$29 \times 36 =$$

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$$21 \times 36 =$$

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$$63 \times 36 =$$

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$$24 \times 36 =$$

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$$31 \times 36 =$$

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$$28 \times 36 =$$

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