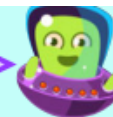


Use factors to help you solve these calculations. The first one has been done for you.



$$6 \times 40 = 6 \times 4 \times 10 = 24 \times 10 = 240$$

$$5 \times 24 = 5 \times 6^* \times 4^* = 30 \times 4 = 120$$

$$7 \times 14 = 7 \times 7 \times 2 = 49 \times 2 = 98$$

$$12 \times 15 = 12^* \times 3^* \times 5^* = 36 \times 5 = 180$$

Harrison's age is three more than a cube number and a multiple of ten. How old is Harrison?

30

Jason's age is above 40, and a multiple of six and five, but not a multiple of nine. How old is Jason?

60

Tracey's age is one less than a square number and is a cube number. How old is Tracey?

8

Stacey's age is a square number and a cube number. She is older than 10. How old is Stacey?

64



Complete these tables by multiplying and dividing each number by 10, 100 and 1000.

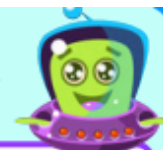
x1000	x100	x10		÷10	÷100	÷1000
40,000	4,000	400	40	4	0.4	0.04

x1000	x100	x10		÷10	÷100	÷1000
56,000	5,600	560	56	5.6	0.56	0.056

x1000	x100	x10		÷10	÷100	÷1000
100,000	10,000	1,000	100	10	1	0.1

x1000	x100	x10		÷10	÷100	÷1000
847,000	84,700	8,470	847	84.7	8.47	0.847

Solve these multiplication and division problems mentally.



- 1) $120 \times 3 = \underline{360}$ 2) $4800 \div 12 = \underline{400}$ 3) $3 \times 4 \times 8 = \underline{96}$ 4) $90 \div 3 = \underline{30}$
 5) $420 \div 6 = \underline{70}$ 6) $2 \times 4 \times 9 = \underline{72}$ 7) $100 \div 2 \div 5 = \underline{10}$ 8) $50 \times 50 = \underline{2500}$
 9) $990 \div 11 = \underline{90}$ 10) $280 \div 7 = \underline{40}$ 11) $900 \times 5 = \underline{4500}$ 12) $300 \times 6 = \underline{1800}$
 13) $64 \div 8 \div 2 = \underline{4}$ 14) $3600 \div 4 = \underline{900}$ 15) $7 \times 3 \times 4 = \underline{84}$ 16) $72,000 \div 8 = \underline{9000}$



Complete this multiplication grid. Only fill in the squares you can solve mentally.

x	5	9	11	6	12	4	8	20
200	100	1800	2200	1200	2400	800	1600	4000
40	200	360	440	240	480	160	320	800
3000	15,000	27,000	33,000	18,000	36,000	12,000	24,000	60,000
300	1500	2700	3300	1800	3600	1200	2400	6000
50	250	450	550	300	600	200	400	1000
80	400	720	880	480	960	320	640	1600
600	3000	5400	6600	3600	7200	2400	4800	12,000

Each box of chocolates has two layers with eight chocolates in each layer. How many chocolates are there in 20 boxes?

320

A chicken farm produces 2400 eggs each day which go into boxes of six. How many boxes of eggs does it produce in a day?

400

There are 50 horses and 10 cats on a ranch. How many legs do the animals have between them?

240