

8. Multi-Digit Division

Splitting Method

Break the dividend into multiples of the divisor, divide each part, then add or subtract the results.

a) $144 \div 12$

$$144 = 120 + 24$$

$$120 \div 12 = 10, \quad 24 \div 12 = 2$$

$$144 \div 12 = 12$$

b) $5040 \div 14$

$$5040 = 4200 + 840$$

$$4200 \div 14 = 300, \quad 840 \div 14 = 60$$

$$5040 \div 14 = 360$$

c) $1287 \div 13$

$$1287 = 1300 - 13$$

$$1300 \div 13 = 100, \quad 13 \div 13 = 1$$

$$1287 \div 13 = 99$$

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d) $7200 \div 24 =$

e) $999 \div 12 =$

f) $3333 \div 25 =$

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g) $4800 \div 25 =$

h) $2500 \div 12 =$