

LO: To multiply decimals by an integer.

Carefree Challenge

Choose the best method to solve these:

- a) $65.2 \times 2 =$
- b) $48.3 \times 3 =$
- c) $52.4 \times 8 =$
- d) $112.3 \times 4 =$
- e) $74.6 \times 5 =$
- f) $119.4 \times 3 =$
- g) $234.8 \times 4 =$
- h) $88.7 \times 0 =$

Solve the following calculations using a standard written method:

a) 25.4	b) 19.3	c) 21.5	d) 34.2
$\times \quad 4$	$\times \quad 3$	$\times \quad 8$	$\times \quad 5$
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e) 48.3	f) 124.5	g) 217.6	h) 205.2
$\times \quad 4$	$\times \quad 6$	$\times \quad 4$	$\times \quad 3$
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Now solve these word problems:

- a) It takes 16.4 metres to make a pair of curtains. How many metres of fabric is needed to make 8 pairs of curtains?
- b) Same earns £12.60 for doing his Saturday morning paper round. How much does he earn after doing the paper round for 4 weeks?
- c) A house is 25.5 metres wide. 6 terraced houses are built in a row. What is the total width of all 6 houses?

Lovely Challenge

Choose the best method to solve these:

- a) $423.4 \times 6 =$
- b) $362.5 \times 4 =$
- c) $32.68 \times 5 =$
- d) $63.05 \times 7 =$
- e) $86.25 \times 6 =$
- f) $75.65 \times 3 =$
- g) $64.08 \times 4 =$
- h) $95.42 \times 8 =$

Solve the following calculations using a standard written method:

a) 156.4	b) 345.9	c) 268.6	d) 62.13
$\times \quad 6$	$\times \quad 4$	$\times \quad 3$	$\times \quad 5$
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e) 34.65	f) 29.13	g) 42.15	h) 89.95
$\times \quad 4$	$\times \quad 8$	$\times \quad 7$	$\times \quad 5$
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Now solve these word problems:

- a) It takes 16.24 metres to make a pair of curtains. How many metres of fabric is needed to make 8 pairs of curtains?
- b) Sam earns £25.65 working in the local newsagents each Saturday. How much does he earn after working for 5 weekends in a row?
- c) A house is 32.45 metres wide. 6 terraced houses are built in a row. What is the total width of all 6 houses?

Tremendous Challenge

Solve these:

- a) $87.34 \times 7 =$
- b) $34.08 \times 34 =$
- c) $56.24 \times 23 =$
- d) $85.62 \times 42 =$
- e) $28.64 \times 44 =$
- f) $75.38 \times 26 =$
- g) $90.27 \times 62 =$
- h) $87.22 \times 74 =$
- i) $43.657 \times 21 =$
- j) $76.159 \times 32 =$

Now solve these word problems:

- a) It takes 26.45 metres of fabric to make a pair of curtains. How many metres of fabric is needed to make 8 pairs of curtains?
- b) The seamstress has 250 metres of fabric. How much will she have left over when she has made 7 pairs of curtains?
- c) Sam earns £32.68 working in the local newsagent each Saturday morning. How much does he earn after working for 12 weeks?
- d) Train tickets from London to Southampton cost £42.67 for adults and £28.75 for children. How much will it cost for a group of 21 adults and 14 children to travel to Southampton?