# LO: To multiply decimals by an integer.

## **Carefree Challenge**

Choose the best method to solve these:

- a) 65.2 x 2 = **130.4**
- b) 48.3 x 3 = 144.9
- c) 52.4 x 8 = 419.2
- d) 112.3 x 4 = 449.2
- e)  $74.6 \times 5 = 373$
- f) 119.4 x 3 = 358.2
- g) 234.8 x 4 = 939.2
- h)  $88.7 \times 0 = 0$

Solve the following calculations using a standard written method:

- a) 25.4
- b) 19.3
- c) 21.5
- d) 34.2

- × 4
- × 3 57.9
- × 8 172.0
- × 5

e) 48.3

101.6

- f) 124.5
- g) 217.6
- h) 205.2

- × 4
- × 6
- × 4
- 615.6

193.2

- 747.0
- 870.4
- 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? 131.2m
  - 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? £50.40
  - 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? 153 metres

### **Lovely Challenge**

Choose the best method to solve these:

c) 
$$32.68 \times 5 = 163.4$$

d) 
$$63.05 \times 7 = 441.35$$

Solve the following calculations using a standard written method:

Now solve these word problems:

e) 34.65 f) 29.13

- 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? 129.92 metres
- 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? £128.25
- 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? 194.7 metres

#### **Tremendous Challenge**

#### Solve these:

- a) 87.34 x 7 = **611.38**
- b) 34.08 x 34 = 1158.72
- c) 56.24 x 23 = 1293.52
- d) 85.62 x 42 = 3596.04
- e) 28.64 x 44 = 1260.16
- f) 75.38 x 26 = 1959.88
- g) 90.27 x 62 = 5596.74
- h) 87.22 x 74 = 6454.28
- i) 43.657 x 21 = 916.797
- j) 76.159 x 32 = 2437.088

#### 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? 211.6 metres
- b) The seamstress has 250 metres of fabric. How much will she have left over when she has made 7 pairs of curtains? 64.85 metres
- c) Sam earns £32.68 working in the local newsagent each Saturday morning. How much does he earn after working for 12 weeks? £392.16
- 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?  $(£42.67 \times 21) + (£28.75 \times 14) = £1298.57$