

## FOCUS 7

### Set 2A

#### Skills

- 1 Yes
- 2  $2\frac{3}{4}$
- 3  $x=7$
- 4  $4 + \sqrt{2}$
- 5  $\frac{1}{4}$  (0,-2)
- 6  $80 \text{ N/m}^2$
- 7 £461.25
- 8 1250

#### Tasks

- 1  $1/243$
- 2  $x=1$   $y=2$ ,  $x=3$   $y=4$
- 3  $(3x-2)(4x+3)$
- 4 (3,1)
- 5 10 cm
- 6 26

## FOCUS 7

### Set 2B

#### Skills

- 1 Yes
- 2  $9/40$
- 3  $x=-3/2$
- 4  $21 - 13\sqrt{3}$
- 5  $\frac{1}{2}$  (0,-7)
- 6  $30 \text{ cm}^3$
- 7 £77.70
- 8 9

#### Tasks

- 1 12 white chocolates
- 2  $2n^2 - 2n + 1$
- 3  $(2x-1)(x-1)$
- 4  $y=6-2x$
- 5  $3 \times (2n + 3)$  multiple of 3
- 6  $603.2 \text{ cm}^2$

## FOCUS 7

### Set 2C

#### Skills

- 1 No
- 2  $49/100$
- 3  $x=-9$
- 4  $6\sqrt{3} - 8$
- 5  $1/6$  (0,0)
- 6 72 km/h
- 7 25%
- 8 4

#### Tasks

- 1 1
- 2  $x=b/(cy-a)$
- 3  $9x^2 + 6x - 10$
- 4  $226.2 \text{ cm}^3$
- 5  $60^\circ$
- 6  $2/3a + 1/3b$

## FOCUS 7

### Set 2D

#### Skills

- 1 Yes
- 2  $2\frac{7}{9}$
- 3  $X=9$
- 4  $3 + 9\sqrt{2}$
- 5 1 (0,3)
- 6 28 km
- 7 2.5%
- 8 120

#### Tasks

- 1 28.5 kg
- 2  $x^3 + 5x^2 + 2x - 8$
- 3 Vertex (-2, -21)
- 4  $x=3.9$ ,  $x=-0.4$
- 5  $81 \text{ cm}^3$
- 6 9 students

## FOCUS 7

### Set 2E

#### Skills

- 1 No
- 2  $19/40$
- 3  $x=8.5$
- 4  $9 + 4\sqrt{2}$
- 5 4 (0,4)
- 6  $2 \text{ N/m}^2$
- 7 15%
- 8 3

#### Tasks

- 1 16384
- 2  $6 + 3\sqrt{3}$
- 3  $27/4 \pi \text{ cm}^2$
- 4 10.0 cm
- 5  $75^\circ$
- 6  $13/14$