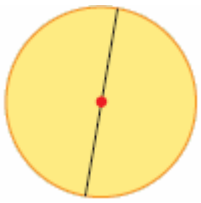
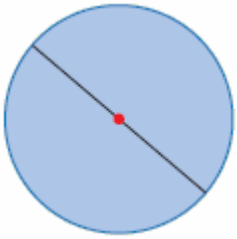
## Chapter 8 Get Ready Answers

### Question 1

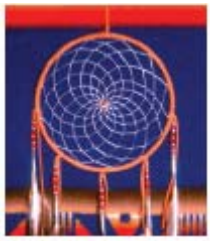
**a)** 2.5 cm



**b)** 3.0 cm



**c)** 1.9 cm



**d)** 2.2 cm

### Question 2

Answers may vary.

**a)** 7.5 cm

**b)** 9 cm

**c)** 6 cm

**d)** 6.6 cm

## Chapter 8 Get Ready Answers (continued)

### Question 3

**a)–c)** Answers may vary.

### Question 4

**a)** $2^5 = 2 \times 2 \times 2 \times 2 \times 2$
$= 32$

**b)** $3^3 = 3 \times 3 \times 3$
$= 27$

**c)** $4^2 = 4 \times 4$
$= 16$

**d)** $5^4 = 5 \times 5 \times 5 \times 5$
$= 625$

**e)** $6^2 = 6 \times 6$
$= 36$

**f)** $7^3 = 7 \times 7 \times 7$
$= 343$

### Question 5

Answers may vary.

$2^5 = 2 \times 2 \times 2 \times 2 \times 2$
$= 32$

$5^2 = 5 \times 5$
$= 25.$

The powers are not equal.

## Chapter 8 Get Ready Answers (continued)

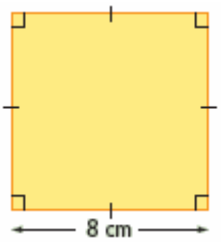
### Question 6

**a)** perimeter of a square:

$P = 4s$

$= 4 \times 8$

$= 32$




area of a square:

$A = s^2$

$= 8^2$

$= 64$

The perimeter is 32 cm, and the area is 64 $cm^2$.

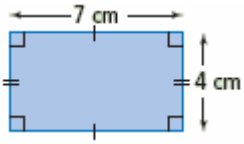
**b)** perimeter of a rectangle:

$P = 2l + 2w$

$= 2 \times 7 + 2 \times 4$

$= 14 + 8$

$= 22$




area of a rectangle:

$A = lw$

$= 7 \times 4$

$= 28$

The perimeter is 22 cm, and the area is 28 $cm^2$.

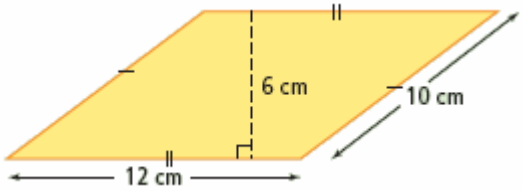
**c)** perimeter of a parallelogram:

$P = 2l + 2w$

$= 2 \times 12 + 2 \times 10$

$= 24 + 20$

$= 44$




area of a parallelogram:

$A = bh$

$= 12 \times 6$

$= 72$

The perimeter is 44 cm, and the area is 72 $cm^2$.

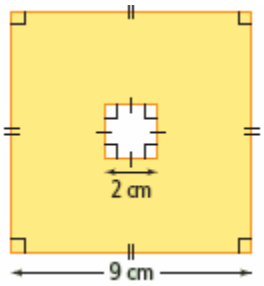
## Chapter 8 Get Ready Answers (continued)

### Question 7

**a)** To find the area of the shaded region, first calculate the two areas of the outer and inner squares.

inner square:
$A = s^2$
$= 2^2$
$= 4$

outer square:
$A = s^2$
$= 9^2$
$= 81$




To find the area of the shaded region, subtract the area of the inner square from the area of the outer square.

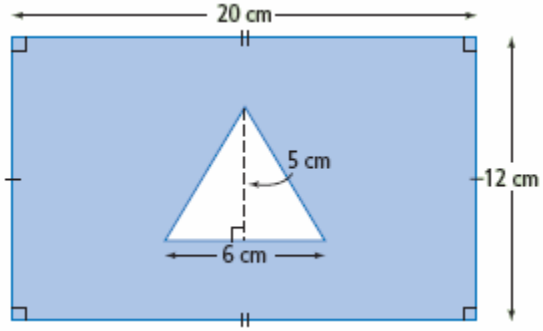
$81 - 4 = 77$

The area of the shaded region is 77 $cm^2$.

**b)** To find the area of the shaded region, first calculate the area of the outer rectangle and inner triangle.
inner triangle:

$A = bh \div 2$
$= 6 \times 5 \div 2$
$= 15$

outer rectangle:
$A = lw$
$= 20 \times 12$
$= 240$




To find the area of the shaded region, subtract the area of the inner triangle from the area of the outer rectangle.

$240 - 15 = 225$

The area of the shaded region is 225 $cm^2$.