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	Math 8:	Section 1.5 Problems f	or Squares and Squar	re roots:
The value of	of $10^2 + 10 + 1$ is			
(A) 101	(B) 1035	(C) 1011	(D) 111	(E) 31
The value o	of $9^2 - \sqrt{9}$ is			
(A) 0	(B) 6	(C) 15	(D) 72	(E) 78
The value of	$(2^3)^2 - 4^3$ is			
(A) 0	(B) -8	(C) 4	(D) 10	(E) 12
The value of (A) 20	the expression 5 ² (B) 18	$-4^2 + 3^2$ is (C) 21	(D) 10	(E) 16
	of $\sqrt{9+16}$ is (B) 7	(C) 5.7	(D) 25	(E) 5
How many e	ven whole number	s lie between 3 ² ar	nd 3 ³ ?	
CONTROL SERVICE		(C) 6	(D) 10	(E) 17
(A) 9				
	as a perimeter of 2	28 cm. The area of	of the square, in	cm^2 , is
		28 cm. The area o	of the square, in (D) 49	cm ² , is (E) 56
A square hat (A) 196 Two squares,	(B) 784	(C) 64	(D) 49	2012
A square hat (A) 196 Two squares,	(B) 784 each with an area o	(C) 64	(D) 49	(E) 56
A square hat (A) 196 Two squares, perimeter of (A) 30 cm	(B) 784 each with an area of this rectangle? (B) 25 cm	(C) 64 f 25 cm ² , are placed	(D) 49 d side by side to for (D) 20 cm	(E) 56 m a rectangle. What (E) 15 cm

A cube has a volume of 125 cm³. What is the area of one face of the cube?

- (A) $20 \, \text{cm}^2$
- **(B)** 25 cm^2 **(C)** $41\frac{2}{3} \text{ cm}^2$ **(D)** 5 cm^2
- **(E)** $75 \, \text{cm}^2$

In the following equations, the letters a, b and c represent different numbers.

$$1^3 = 1$$

$$a^3 = 1 + 7$$

$$3^3 = 1 + 7 + b$$

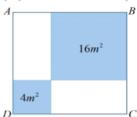
$$4^3 = 1 + 7 + c$$

The numerical value of a+b+c is

- (A) 58
- **(B)** 110
- (C) 75
- **(D)** 77
- **(E)** 79

ABCD is a square that is made up of two identical rectangles and two squares of area 4 cm² and 16 cm². What is the area, in cm², of the square ABCD?

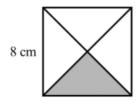
- (A) 64
- **(B)** 49
- (**D**) 36
- (E) 20



The diagonals have been drawn in the square shown. The area of the shaded region of the square is

- (A) 4 cm^2
- **(B)** 8 cm^2
- (C) 16 cm^2

- **(D)** 56 cm^2
- (E) 64 cm^2



Two squares, each with side length 5 cm, overlap as shown. The shape of their overlap is a square, which has an area of 4 cm². What is the perimeter, in centimetres, of the shaded figure?

- (A) 24
- **(B)** 32
- (C) 40

- **(D)** 42
- (**E**) 50

