

## GMAT QUANT PRACTICE PAPER

### DATA SUFFICIENCY

#### Question: 1

Determine the price of two type A footballs if the total cost of a type A and a type B football is \$500.

1. Type B football costs \$200.
2. Two type A and three type B footballs costs \$1200.

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#### Question: 2

What is the value of the positive number,  $p$ ?

1. One of its divisors is 7.
2.  $p$  is divisible by two positive numbers only

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**Question: 3**

**Ann deposited \$3000 in her bank account at the beginning of the year. Determine the amount the funds accumulated to.**

1. The bank offered 4.3% interest rate.
2. The amount was deposited for a period of 5 years.

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**Question: 4**

**Find the mean of the data.**

1. The data has 8 data values
2. The data is 3, 4, 5, 6, 4, 1, 0, 5

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**Question: 5**

**Determine the volume of a cuboids.**

1. The length is twice the width and the height is 4 inches.
2. The length is 6 inches.

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**Question: 6**

**Find the value of r if  $4r + 2t = 14$ .**

1.  $t = 2$ .
2.  $r > t$ .

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**Question: 7**

**Find the common difference of the arithmetic sequence.**

1. The third term of the sequence is 1.428.
2. The first and the fifth terms of the sequence is 1 and 1.856.

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**Question: 8**

**Stephenson, a businessman bought an Iron box for \$80. Determine his profit.**

1. He made a 30% profit.
2. His selling price was \$104.

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**Question: 9**

**The ratio of water to alcohol in a 14 cup container is 2:5. Determine the new volume of the liquid in the container.**

1. Water is increased by 14%.
2. Mixture whose ratio of water to alcohol is 4:5 is added to that in the container.

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**Question: 10**

**Determine the area of a triangle A.**

1. Triangle A and B are similar with a linear scale factor of 7 : 10.
2. B is larger than A.

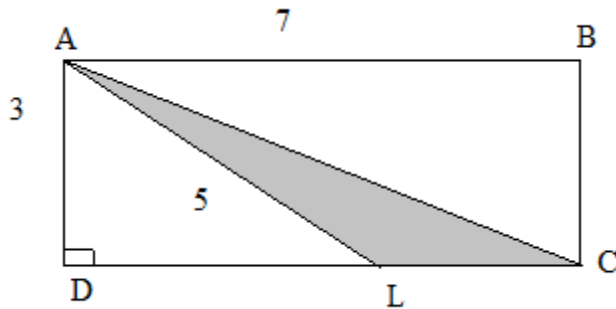
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### PROBLEM SOLVING

#### Question: 1

What is the area of triangle ALC in the figure given below?



- 2.5
- 3
- 3.5
- 4
- 4.5

#### Question: 2

Alan has two more than twice as many chocolates as does Alice, and half as many chocolates as does Nadia. If Alice has 'a' number of chocolates, then in terms of 'a', how many chocolates do Alan, Alice and Nadia have?

- $2a + 4$
- $5a + 5$
- $6a + 7$
- $7a + 6$
- $9a + 4$

**Question: 3**

Milk needs to be thinned to a ratio of 3 parts milk to 2 parts water. The milk-man has by mistake added water so that he has 8 liters of milk which is half water and half milk. What must he add to make the proportions of the mixture correct?

- 1 liter milk
- 1 liter water
- 2 liters milk
- 1.5 liter milk
- 3 Liter milk

**Question: 4**

The width of a rectangle is  $\frac{2}{3}$  times its length. If the length is calculated to be 9, what is the value of perimeter for this rectangle?

- 36
- 9
- 12
- 54
- 30

**Question: 5**

A line  $l$  is parallel to the  $y$ -axis and passes through the point  $(2,3)$ . What is its gradient ( $m$ ) and  $x$ -intercept?

- $m=0, x=(3,0)$
- $m=\infty, x=(2,0)$
- $m=0, x=(2,0)$
- $m=\infty, x=(3,0)$
- $m=2, x=(0,0)$

**Question: 6**

What is the equation of the new parabola created by shifting  $y = x^2$ , three units in the positive  $y$ -axis direction?

A.  $y = (x+3)^2$

B.  $y = x^2$

C.  $y = x^2 + 3$

D.  $3y = x^2$

E.  $y = x^3$

- A
- B
- C
- D
- E

**Question: 7**

**A sphere with diameter 1 unit is enclosed in a cube of side 1 unit each. Find the unoccupied volume remaining inside the cube.**

- $\frac{1}{4}$
- $2\pi$
- $\pi/6-1$
- $1-\pi/4$
- $1-\pi/6$

**Question: 8**

The function  $y=3x^2$  is shifted 2 units towards the positive  $x$ -axis (right) and 3 units towards the positive  $y$ -axis (up). Find the resulting function.

A.  $y=3x^2+5$



B.  $y=3x^2$

C.  $y=3(x+2)^2+3$

D.  $y=3(x-2)^2-3$

E.  $y=3(x-2)^2+3$

A

B

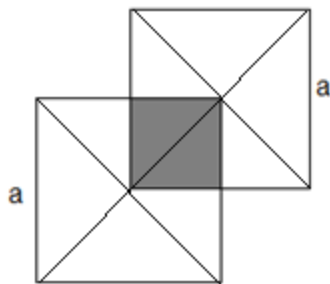
C

D

E

**Question: 9**

**Find the shaded area when two squares with side 'a' intersect as shown in the figure below.**



A.  $\frac{1}{8} a^2$

B.  $\frac{1}{4} a^2$

C.  $a^2$

D.  $\frac{1}{3} a^2$

E.  $\frac{2}{5} a^2$

A

B

- C
- D
- E

**Question: 10**

**If the largest side of a triangle is A, and the other two sides are B and C. What relation exists between them?**

- $A=B+C$
- $A+C$
- $A > |B-C|$
- $|B-C|$
- $A=\pi(B-C)$