



### Model Exam (1)

### Question 1:

### Answer the following:

**a-** 65.3814 + 63.4027 = ..... 
$$\simeq$$
 ..... (to the nearest  $\frac{1}{1000}$ )

**b**- 
$$53.27 - 2.1 = \dots \simeq \dots \simeq ($$
to the nearest tenth)

**c-** 
$$(3.425 + 1.07) \div 2.8 = \dots$$
  $\simeq \dots (to the nearest hundredth)$ 

**d**- 
$$9.568 \div 9 \frac{1}{5} = \dots \simeq \dots \simeq \dots$$
 (to the nearest whole number)

**f-** The chord of a circle is a line segment that connects .......

$$g- 2.9 ton = ..... kg$$

**h-** A box contain 24 lamps, 3 lamps are defective. A lamp has been randomly selected, the probability of getting a functional lamp = .....

i- If 
$$X = \{2, 3\}$$
,  $Y = \{3, 5\}$ , then  $X \cap Y = \dots$ 

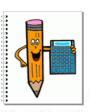
**j**- 254 hours ≃ ...... days

### **Question 2:**

A) The area of a rectangle is 9.43 cm<sup>2</sup> and its width is 2.45 cm. find its length and approximate it to the nearest hundredth of centimeter.











В

D

### B) Compare:

$$(84.5 \div 49) \times 0.1$$

### **Question 3:**

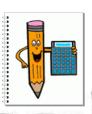
- A) A spinner is divided into 4 equal sections.
- a- What is the probability of spinning the letter B?
- b- Spin the spinner 400 times. What is the predicted number of getting letter A?
- B) Draw a circle whose centre is M and radius is 2.5 cm. then draw its diameter  $\overline{AB}$  and draw its chord  $\overline{AC}$  of length 3 cm. Draw  $\overline{BC}$  then find its length.

### **Question 4:**

- A) If U = {1, 2, 3, 4, 5, 6}, X = {2, 3, 5} and Y = {3, 4, 5} Represent the sets by Venn diagram. Then write each of the following by listing method:
- a) X ∪ Y
- **b)** X ∩ Y
- c) X Y
- d) X`
- B) Find the product of 58.62 × 35.2 and approximate it to the nearest hundredth.









## Math 5<sup>th</sup> primary



### **Question 5:**

• Choose the correct answer:

**a-** The number of subsets for the set  $\{5\}$  is ............ (0-1-2-3)

**b-** If M is a circle whose diameter is 8 cm where MA = 7 cm then the point A is located ...... (inside – outside – on) the circle.

**c-**  $654 \div 76 = 6.54 \div \dots$ 

(76 - 0.76 - 7.6)

**d-** If  $X \subset Y$  then  $X \cap Y = \dots$ 

 $(X-Y-\emptyset-U)$ 

**e**- Ø ..... {0}

 $(=-\subset-\not\subset-\in)$ 

### **Question 6:**

A) Draw the isosceles triangle ABC in which BC = 4 cm, and AB = AC = 6 cm Then, draw perpendicular segments from their vertices to their three sides.

B) The following table lists the results of a survey applied on 100 spectators of T.V

Program	Arabic films	Foreign films	Series	News	Football matches
Number of spectators	19	20	15	10	36

A spectator has been randomly selected. Find the probability of selecting a spectator prefers:

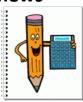
a- Football matches b- foreign films

c- series

d- news











### Model Exam (2)

### **Question 1:**

### • Find the following:

**a-**  $729.72 - 122.7435 = \dots \simeq \dots \simeq \dots$ 

(to the nearest hundredth)

**b-**  $1.623 \div 0.152 = \dots \simeq \dots$ 

(to the nearest tenth)

**c-**  $984.45 + 73.2 = \dots \simeq \dots$ 

(to the nearest unit)

**d-** 1.775 × 0.15= ......  $\simeq$  .......

( to the nearest  $\frac{1}{1000}$  )

**e-** 
$$4\frac{1}{2} \div 0.5 = \dots$$

**f-**  $X \in \{2, 5\} \cap \{3, 5\}$ , then  $X = \dots$ 

**g-** 8.56 m = ...... km

### Question 2:

- A) A card has been randomly drawn out of 10 cards numbered from 1 to 10 Find the probability of getting:
- a- An odd number
- **b** A prime number
- c- An even number greater than 6
- B) Draw the triangle ABC in which AB = 7 cm, BC = CA = 6 cm. then, draw the line segment from point C that is perpendicular to  $\overline{AB}$  and find its length.









### **Question 3:**

### A) Complete:

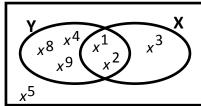
**a-** If 
$$\{1, X\} = \{2, Y\}$$
, then  $X = \dots, Y = \dots$ 

- **b-** The longest chord in a circle is called .........
- **c** The probability of failing a student is  $\frac{2}{15}$ , The probability of success = .......
- **d-** 72 days ≃ ...... weeks
- **e-**  $\{2, X\} \cap \{3, 7\} = \{3\}$ , then  $X = \dots$
- **f** The difference between  $\frac{9}{16}$  and 0.5734 is .......
- B) The area of a rectangle is 10.25 square meters, and its length is 4.1 meters. Find its width and perimeter.

### **Question 4:**

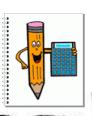
- A) Look at the opposite Venn diagram and find the following sets using the listing method:

  U
- **a)** X ∪ Y
- **b)** X ∩ Y
- c) X Y
- **d)** Y`
- **e)** (X ∪ Y)`



B) Find the number that if multiplied by 0.37, then the result is 17.8932









### C) Choose the correct answer:

a-	The number of	of altitudes in an	y triangle =	(1 - 2 - 3)
a-	THE HUILIDEL (	n aitituues iii aii	y trialigie –	(1-2-3)

**b**- 
$$\{1,7\}$$
 ......  $\{0, 1, 2, 3, 4, ...\}$   $(\in - \notin - \subset - \not\subset)$ 

c- 
$$12\frac{1}{2} \times \frac{4}{5} = \dots$$
 (  $10 - 100 - 50$  )

**d-** If  $\overline{AB}$ ,  $\overline{AC}$  are two chord in a circle, then  $\overline{BC}$  is a ......(chord – diameter – radius) in the same circle.

$$e-5698.65 \div 100 = \dots$$
 (569865 - 56.9865 - 5.69865)

**f-** 
$$X - X = \dots$$
 ( $\emptyset - zero - \{0\} - \{1\}$ )

### **Question 5:**

A) Rolling a regular number cube. What is the probability of getting an even number and not divisible by 3?

### B) Put (✓) for the true sentence and (×) for the false one:

b- The length of the diameter of a circle > the length of anywhich doesn't pass through its center( )

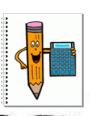
$$c-8 \in \{5,7\}$$
 ( )

$$d-439.71 \times 1000 = 439710 \tag{}$$

e- The line segments drawn from the vertices of the acute triangle perpendicular to the opposite sides intersect at one point inside the triangle.











### **Question 6:**

- A) Draw a circle whose center is N and diameter is 6 cm. then draw the diameter  $\overline{AB}$  and the chord  $\overline{AC}$  in the circle. Draw  $\overline{BC}$ . Use the protractor to measure  $\angle$  ACB , then draw  $\overline{CD} \perp \overline{AB}$  that intersects it at D and the circle at E , then choose the correct answer:
- a- The triangle ABC is ......(right triangle acute triangle obtuse triangle)
- **b-**  $\overline{CE}$  is ..... in the circle (chord diameter radius)
- **c** The intersection point of the perpendicular line segments drawn from the vertices of the triangle ABC to the opposite sides is ...

$$(C-D-E)$$

B) Divide 375 by 0.5 then add  $5\frac{1}{4}$  to the quotient.







### Model Exam (3)

### **Question 1:**

<ul> <li>Find the following</li> </ul>
--

**b-** 12.46 ÷ 0.517 = .......  $\simeq$  ....... (to the nearest tenth)

**c-**  $700.14 + 55.009 = \dots \simeq \dots \simeq (to the nearest unit)$ 

**d-** 7.52 ÷ (14.73 – 11.58) = ......  $\simeq$  ...... (to the nearest  $\frac{1}{100}$ )

**e-**  $2\frac{1}{8} \div 0.125 = \dots$ 

**f**- If  $4 \in \{2, X, 7\}$ , then  $X = \dots$ 

**g-** The midpoint of any diameter in a circle is ..... of the circle.

h- A card has been drawn out of 5 cards containing the numbers:

32

25

14

63

27

The probability of selecting a number that the sum of its two digits is 9 =

### **Question 2:**

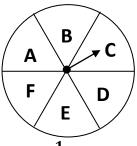
A) Draw the triangle XYZ in which XY = 3 cm, YZ = 5 cm, ZX = 7 cm. determine the types of the triangle according to the measures of its angles, then draw the perpendicular segment from X to  $\overline{YZ}$  and measure its length.







- B) A spinner is divided into 6 equal sections.
- a- What's the probability of spinning on any section?
- b- Spinning the spinner 60 times. How many times are predicted to get the letter (A) as an outcome?



### **Question 3:**

- A) Rearrange the following fractions descendingly:  $\frac{1}{2}$  , 0.8 ,  $\frac{1}{4}$  , 0.3
- B) The side length of a square is 5.06 meters.

  Find its area approximating it to the nearest hundredth.
- C) If  $X = \{3, 4, 5\}$ ,  $Y = \{2, 3, 4\}$ Place the suitable symbol  $\in$  or  $\not\subset$  or  $\not\subset$  in the blanks.

**d-** 
$$\{3, 5\}$$
 .....  $X \cap Y$ 

### **Question 4:**

A) The following table lists the number of 120 volunteers in 3 groups to make uniforms for cleaners.

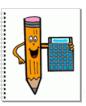
Group	Design	Printing	Distribution
Number of volunteers	30	30	60

A volunteer has been randomly selected. What is the probability to be one of the printing group?

B) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck?









## Math 5<sup>th</sup> primary



### **Question 5:**

### A) Choose the correct answer from the parentheses:

**a-** If 
$$\{2, 5, 7\} = \{5, A, 2\}$$
 then  $A = .....$ 

$$(2-5-7-0)$$

**b-** If A, B belong to the circle M where  $M \in \overline{AB}$  then  $\overline{AB}$  is called a (chord – diameter – radius) in the circle.

$$(> or = or <)$$

$$d-{5}-{1, 2, 5} = \dots$$

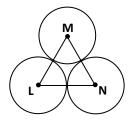
$$({5} - {1, 2} - \emptyset - {1, 2, 5})$$

**e-** If 
$$a \in X$$
 then a .......  $X$ 

$$(\in -\notin -\subset -\not\subset)$$

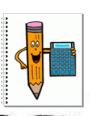
f- In the opposite figure,

If the length of each radius in the
three circles is 3 cm, then the perimeter
of the triangle MLN = (6 – 9 – 18) cm



B) Draw a circle whose center is M and radius 2 cm then draw two radii  $\overline{MX}$ ,  $\overline{MY}$  and the included angle between them measures 60° then draw  $\overline{XY}$  and find the length of  $\overline{XY}$ .







# <u>Math</u>



### Model Exam (4)

### Answer the following questions:

[a]  $457.6 \div 100 = \dots \simeq \dots \simeq \dots$  (to the nearest tenth)

[b] If  $X \subset Y$ , then  $X \cup Y = \dots$ 

 $[c]\frac{5}{7} \times \dots = 1$ 

[d] If  $\{2, x + 1\} = \{6, 2\}$ , then  $x = \dots$ 

### Choose the correct answer :

[a]  $\{43\} \cap \{4,3\}$  .... ( $\{3\}$  or  $\{4\}$  or  $\{43\}$  or  $\emptyset$ )

[b] If the length of the radius of a circle is 5 cm., then the length of the 10) (2 or 8 longest chord = ..... cm. or

[c] Any triangle has ..... altitudes (1 or 2 4)

[d]  $12 \div \frac{4}{3} = \dots$ (9 or 8) 16 or

### [a] Find the result then approximate :

(1)  $4.52 \times 0.3 = \dots \simeq$  (to the nearest 2 dicimal place)

(2)  $24.7 - 7 \frac{1}{2} = \dots = \dots$  (to the nearest unit)

(3)  $2.46 \div 0.6 = \dots$ 

### [B] Arrange in an ascending order:

7.8 , 7.75 ,  $6\frac{1}{4}$  and 6.4

### [a] If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$ , $X = \{2, 4, 5, 6\}$ and $Y = \{4, 5, 7\}$

Represent these sets by Venn diagram then find :-

**(1)** X ∩ Y

**(2)** X ∪ Y

(3) X - Y

(4) X

### [b] Complete using $(\in, \notin, \subset \text{ or } \not\subset)$ :



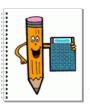




[a] Draw the triangle ABC in which AB = 8 cm. , BC = 6 cm. and AC = 10 cm. , then complete : m ( $\angle$  B) = .....°

### [b] Complete:

- (1) The probability of the impossible event = .....
- (2) As throwing a metallic coin once, then the number of elements of the sample space = .....
- (3) As throwing a fair die once, then the probability of appearing:
  - (a) An even number = .....
  - (b) A number greater than 4 = .....







### Model Exam (5)

Answer	the	following	questions	:
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1	Complete	:
---	----------	---

- [c] As throwing a fair die once, then the probability of appearing a number less than 3 is .....
- [d] The altitudes of the right-angled triangle intersect at .....

### Choose the correct answer:

[a] 63.594 ≈ 63.6 (to the nearest .....)

(0.1 or 0.01 or 0.001 or 10)

[b] 
$$3\frac{1}{2} \div \frac{7}{12} = \dots$$
 (6 or  $\frac{18}{2}$  or  $\frac{50}{12}$  or 4)

[b] 
$$3 \frac{1}{2} + \frac{1}{12} = \frac{1}{12}$$
 ( $\in$  or  $\notin$  or  $\subset$  or  $\notin$ )

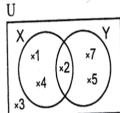
[d] The chord which passes through the centre of the circle is called .....

( a diameter or a radius or a tangent or a side )

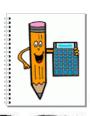
# [a] Arrange ascendingly: $14\frac{1}{4}$ , 15.025, 14.375 and $14\frac{1}{8}$

[b] From the opposite Venn diagram, write the following sets:

- (1) X
- (2) X ∪ Y
- (3) X ∩ Y
- (4)♥ X





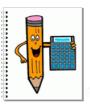






- [a] Draw the equilateral triangle ABC whose side length = 5 cm., then draw  $\overline{AD} \perp \overline{BC}$ 
  - **[b]** Find the area of the square whose side length is 5.02 m.. approximating the result to the nearest tenth.
- [a] If the price of a piece of sweet is 2.5 pounds. What is the price of 25 pieces of the same kind?
  - **[b]** A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in the size. If a ball is drawn randomly. What is the probability that the drawn ball is :
    - (1) Not white.

(2) White or red.







## 5<sup>th</sup> primary

### <u>Answers</u> <u>Model Exam (1)</u>

#### **Question 1:**

$$a-128.7841 \simeq 128.784$$

**b-** 
$$51.17 \simeq 51.2$$

**c-** 
$$4.495 \div 2.8 = 44.95 \div 28 = 1.6053 \approx 1.61$$

**d-** 
$$9.568 \div 9.2 = 95.68 \div 92 = 1.04 \simeq 1$$

$$e - 4.5 \times 9 = 40.5$$

f- between any two points on the circle

$$g-2.9 \text{ ton} \times 1000 = 2900 \text{ kg}$$

**h-** Functional lamps = 24 - 3 = 21, so the probability of getting a functional lamp =  $\frac{21}{24} = \frac{7}{8}$ 

**i-** 
$$X \cap Y = \{3\}$$

**j**- 
$$254 \div 24 = 10.583 \simeq 11 \text{ days}$$

### **Question 2:**

Length = area ÷ width  
= 
$$9.43 \div 2.45 = 943 \div 245 = 3.8489 \simeq 3.85$$
 cm

### **Question 3:**

**A)** a-
$$\frac{1}{4}$$

**b**- First the probability of getting letter A = 
$$\frac{1}{4}$$
, then the predicted number of getting letter A =  $400 \times \frac{1}{4} = 100$  times

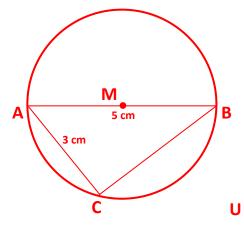






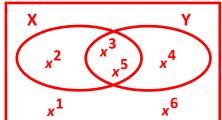
## primary

**B)** BC = 4 cm



#### **Question 4:**

- **A)** a) {2, 3, 4, 5}
  - **b)** {3, 5}
  - **c)** {2}
  - **d)** {1, 4, 6}



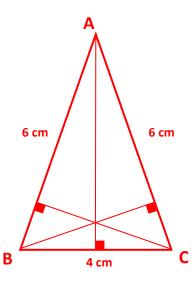
**B)** 
$$58.62 \times 35.2 = 2063.424 \simeq 2063.42$$

### **Question 5:**

**Question 6:** 

- a- 2
- b- Outside
- c- 0.76
- d- X
- e- ⊂

### A)



$$a - \frac{36}{100} = \frac{9}{25}$$

$$b - \frac{20}{100} = \frac{1}{5}$$

$$c-\frac{15}{100}=\frac{3}{20}$$

$$d-\frac{10}{100}=\frac{1}{10}$$







10.67

1623.55

## 5<sup>th</sup> primary

### Model Exam (2)

#### **Question 1:**

**a-**  $606.9765 \approx 606.98$ 

**b**-  $10.67 \simeq 10.7$ 

**c-**  $1057.65 \approx 1058$ 

**d-**  $0.26625 \simeq 0.266$ 

 $e - \frac{9}{2} \div \frac{5}{10} = \frac{9}{2} \times \frac{10}{5} = \frac{90 \div 10}{10 \div 10} = \frac{9}{1} = 9$ 

2 10 2 5 10÷10 1 **f-** 5

 $g-8.56 \text{ m} \div 1000 = 0.00856 \text{ km}$ 

	152	162
1.775		-152

×

1030

<u>0.15</u> <u>-912</u>

8875 1180 17750 -1064

0.26625 R= 116

#### **Question 2:**

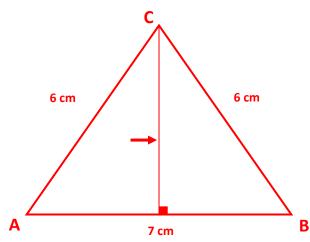
#### A)

**a-** The probability of getting an odd number =  $\frac{5}{10} = \frac{1}{2}$ 

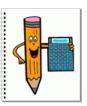
**b**- The probability of getting a prime number =  $\frac{4}{10} = \frac{2}{5}$ 

**c**- The probability of getting an even number greater than  $6 = \frac{2}{10} = \frac{1}{5}$ 

B) Length of line segment = 5cm











## 5<sup>th</sup> primary

#### **Question 3:**

- **A)** x = 2 and y = 1
  - b) Diameter
  - c) The probability of success =  $1 \frac{2}{15} = \frac{13}{15}$
  - **d)**  $72 \div 7 = 10.2 \simeq 10$  weeks
  - **e)** X = 3
  - f)  $\frac{9}{16}$  = 0.5625, the difference = 0.5734 0.5625 = 0.0109

 $W = 10.25 \div 4.1 = 102.5 \div 41 = 2.5 \text{ m}$ 

Perimeter = 
$$(L + W) \times 2$$
  
=  $(4.1 + 2.5) \times 2$   
=  $6.6 \times 2 = 13.2 \text{ m}$ 

### 102.5 -82 205

41

002.5

### -205 00

#### **Question 4:**

#### A)

- **a-** {4, 8, 9, 1, 2, 3}
- **b** {1, 2}
- **c** {3}
- **d-** {3, 5}
- **e-** {5}
- **B)** ..... × 0.37 = 17.8932

$$17.8932 \div 0.37 = 1789.32 \div 37 = 48.36$$

#### C)

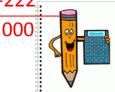
- **a-** 3
- **b** ⊂

$$c^{\frac{5}{2}} \times \frac{2}{2} = 10$$

- d- Chord
- **e-** 56.9865
- f- Ø

### 0048.36 37 1789.32

- -148 309
  - -296
  - 133
  - -<u>111</u> 222
  - -222



### Mid-year





## Math primary



### **Question 5:**

**A)** 
$$\frac{2}{6} = \frac{1}{3}$$

B)

a- (√)

b- (√)

c- (×)

d- (✓)

e- (√)

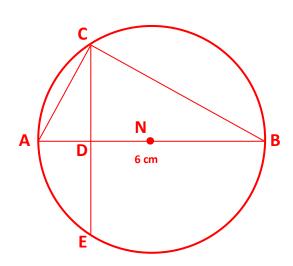
### **Question 6:**

A) M ( < A B C ) =  $90^{\circ}$ 

a- Right angled triangle

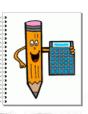
b- Chord

c- C



B) 
$$375 \div 0.5 + 5\frac{1}{4} = 750 + 5\frac{1}{4} = 755\frac{1}{4}$$









## 5<sup>th</sup> primary

### Model Exam (3)

### **Question 1:**

$$a-753.2489 \simeq 753.249$$

**b-** 
$$12460 \div 517 = 24.1005 \simeq 24.1$$

**c-** 
$$755.149 \simeq 755$$

**d-** 
$$7.52 \div 3.15 = 2.3873 \simeq 2.39$$

$$e^{-\frac{17}{8} \div \frac{125}{1000}} = \frac{17}{8} \times \frac{1000}{125} = 17$$

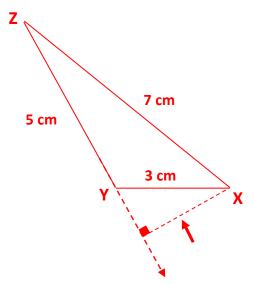
$$f - X = 4$$

g- Center

$$h - \frac{2}{5}$$

#### **Question 2:**

A) Obtuse angled triangle Length = 2.5 cm



B)

**a-** 
$$\frac{1}{6}$$

**b**- The probability of getting letter A = 
$$\frac{1}{6}$$

So, the number of times are predicted to get letter A =  $60 \times \frac{1}{6}$  = 10 times









## primary

#### **Question 3:**

**A)** Answer: 0.5, 0.8, 0.25, 0.3 Arrange: 0.8, 0.5, 0.3, 0.25

**B)** Area =  $S \times S$  $= 5.06 \times 5.06 = 506 \times 506 = 25.6036 \text{ m}^2 \simeq 25.60 \text{ m}^2$ 

C)

**a**- ∉

**b**- ⊂ **c**- ⊂ **d**- ⊄ **e**- ∈

f-⊄

### **Question 4:**

A) The probability to be one of the printing group =  $\frac{30}{120} = \frac{1}{4}$ 

**B)** The number of times needed =  $4375 \div 125 = 35$  times

### **Question 5:**

A)

a- 7

**b**- Diameter

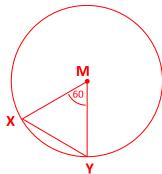
**C-** <

d- Ø

**e**- ∉

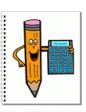
**f**- One side = 6 cm, perimeter = 6 + 6 + 6 = 18 cm

B) XY = 2 cm



li<u>d-year</u>









### Model Exam (4)

### 1) Complete:-

- a)  $4.576 \simeq 4.6$
- b) Y
- c)  $\frac{7}{5}$
- d) X = 5

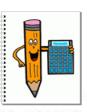
### 2) Choose:-

- a) Ø
- b) 10
- c) 3
- d)  $12 \times \frac{3}{41} = 9$
- 3) Find:-
- 1)  $1.356 \simeq 1.36$
- 2)  $17.2 \simeq 17$
- 3) 4.1
- b) Arrange in an ascending order:-

7.80, 7.75, 6.25, 6.40

6.25, 6.40, 7.75, 7.80









## 5<sup>th</sup> primary

- 4)
- a)

1) 
$$X \cap y = \{4, 5\}$$

2) 
$$X \cup y = \{2, 4, 5, 6, 7\}$$

3) 
$$X - y = \{2, 6\}$$

4) 
$$\hat{X} = \{1, 3, 7, 8\}$$

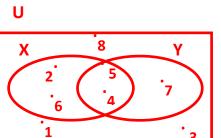
- b)
- 1) ∈
- 2) ⊂
- 3) ⊂
- 5)
- a),  $( < B ) = 90^{\circ}$

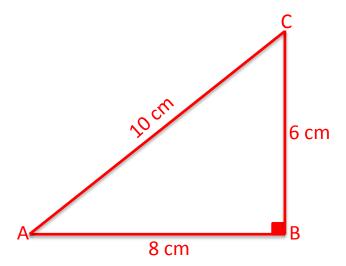
### b) Complete:-

- 1) 0
- 2) 2
- 3)

a) 
$$\frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

b) 
$$\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$$









### Model Exam (5)

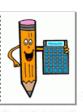
### 1) Complete:-

- a) C
- b) Impossible
- c)  $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$
- d) The vertex of the right angle.

### 2) Choose:-

- a) 0.1
- b)  $\frac{\pi}{2}$  ×  $\frac{12}{\pi}$  =  $\frac{12}{2}$  = 6
- c) ∉
- d) a diameter.
- 3)
- a) 14.250, 15.025, 14.375, 14.125
- 14.125, 14.250, 14.375, 15.025
- b)
- 1)  $\hat{X} = \{3, 5, 7\}$
- 2)  $X \cup y = \{1, 2, 4, 5, 7\}$
- 3)  $X \cap y = \{2\}$
- 4)  $Y X = \{5, 7\}$





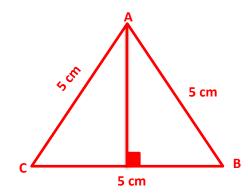






4)

a)



- b) A of square =  $S \times S$
- $= 5.02 \times 5.02$
- = 25.2004 m<sup>2</sup>
- $25.2004 \simeq 25.2 \text{ m}^2$
- <u>5)</u>
- a) The price =  $2.5 \times 25 = 62.5$  pounds
- b)
- 1) Not white =  $\frac{15 \div 5}{20 \div 5} = \frac{3}{4}$
- 2) White or red =  $\frac{14 \div 2}{20 \div 2} = \frac{7}{10}$

### Good Luck





