



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject- Mathematics    Answers of Worksheet- 15  
Date -25.04.2020

Class – 5

Chapter- Unitary Method

Answer the following questions (MCQ) :

(1×15):

Q1. In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one bag of husk?

1.

- A. 15
- B. 40
- C. 38
- D. 32

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**Correct Option: B**

40 cows eat 40 bags of husk in 40 days.

∴ 1 cows eat 40 bags of husk in 40 x 40 days.

∴ 1 cows eat 1 bags of husk in 40 x 40 / 40 days.

∴ 1 cows eat 1 bags of husk in 40 days.

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Q2. 21 goats eat as much as 15 cows. How many goats eat as much as 35 cows?

1.

- A. 38
- B. 49
- C. 37
- D. 41

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**Correct Option: B**

15 Cows eat as much as 21 Goats.

∴ 1 Cows eat as much as 21/ 15 Goats.

∴ 35 Cows eat as much as 21 x 35 / 15 Goats.

- ∴ **35 Cows** eat as much as **21 x 7 / 3 Goats**.
  - ∴ **35 Cows** eat as much as **7 x 7 Goats**.
  - ∴ **35 Cows** eat as much as **49 Goats**.
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**Q3.** **39** persons can repair a road in **12 days**, working **5 hours** a day. In how many days will **30 persons**, working **6 hours** a day, complete the work?

1.

- A. 10
  - B. 13
  - C. 18
  - D. 136
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**Correct Option: B**

Since **39** persons can repair a road by working **5 hours** in a day in **12 days**.

- ∴ **1** persons can repair a road by working **5 hours** in a day in **39 x 12 days**.
  - ∴ **1** persons can repair a road by working **1 hours** in a day in **39 x 12 x 5 days**.
  - ∴ **30** persons can repair a road by working **1 hours** in a day in **39 x 12 x 5 / 30 days**.
  - ∴ **30** persons can repair a road by working **6 hours** in a day in **39 x 12 x 5 / 30 x 6 days**.
  - ∴ **30** persons can repair a road by working **6 hours** in a day in **39 x 2 x 1 / 6 days**.
  - ∴ **30** persons can repair a road by working **6 hours** in a day in **39 x 1 x 1 / 3 days**.
  - ∴ **30** persons can repair a road by working **6 hours** in a day in **13 days**.
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**Q4 .** **4** mat-weavers can weave **4 mats** in **4 days**. At the same rate, how many mats would be woven by **8** mat-weavers in **8 days**?

1.

- A. 16
  - B. 12
  - C. 18
  - D. 14
- 

**Correct Option: A**

**4** mat-weavers in **4 days** can weave **4** mats.

**1** mat-weavers in **4 days** can weave **4 / 4** mats.

**1** mat-weavers in **1 days** can weave **4 / 4 x 4** mats.

**8** mat-weavers in **1 days** can weave **4 x 8 / 4 x 4** mats.

8 mat-weavers in 8 days can weave  $4 \times 8 \times 8 / 4 \times 4$  mats.

8 mat-weavers in 8 days can weave  $4 \times 2 \times 2$  mats.

8 mat-weavers in 8 days can weave 16 mats.

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Q5.If a quarter Kg of potato costs 60 paise, How many paise will 200 gm cost?

1.

A. 48

B. 45

C. 59

D. 72

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**Correct Option: A**

As we know that Quarter Kg = 250 Gram

According to question,

**250 Gram** of potato costs **60 paise**.

∴ **1 Gram** of potato costs **60 / 250 paise**.

∴ **200 Gram** of potato costs **60 x 200 / 250 paise**.

∴ **200 Gram** of potato costs **60 x 20 / 25 paise**.

∴ **200 Gram** of potato costs **60 x 4 / 5 paise**.

∴ **200 Gram** of potato costs **12 x 4 paise**.

∴ **200 Gram** of potato costs **48 paise**.

Q6.If 20 articles cost ₹ 90, then the cost of 9 articles is ?

1.

A. ₹ 45

B. ₹ 40.50

C. ₹ 4.50

D. None of these

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**Correct Option: B**

Cost of 20 articles = ₹ 90

Cost of 1 article = ₹ 90/20

∴ Cost of 9 article = 9 x 90/20 = ₹ 40.50

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Q7.If cost of 24 oranges is ₹ 72, then find out the cost of 120 oranges.

1.

- A. ₹ 180
- B. ₹ 360
- C. ₹ 172
- D. ₹ 500

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**Correct Option: B**

Let the required cost be ₹ N.

More orange, more cost (Direct proportion)

$$24 : 120 :: 72 : N$$

$$\therefore N = (120 \times 72)/24 = ₹ 360$$

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Q8.If cost of 12 pens is ₹ 84, then what is the cost of 10 such pens ?

1.

- A. ₹ 90
- B. ₹ 72
- C. ₹ 65
- D. ₹ 70

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**Correct Option: D**

∴ Cost of 12 pens = ₹ 84

Cost of 1 pen = ₹ 84/12

∴ Cost of 10 pens = (84/12) × 10

$$= 7 \times 10 = ₹ 70$$

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Q9.If cost of 15 eggs is ₹ 75, then find out the cost of 4 dozens eggs.

1.

- A. ₹ 240
  - B. ₹ 300
  - C. ₹ 150
  - D. ₹ 185
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**Correct Option: A**

∴ Cost of 15 eggs = ₹ 75

∴ Cost of 1 egg = ₹ 75/15

∴ Cost of 4 dozens (4 x 12) = Cost of 48 eggs

= (75/15) x 48 = ₹ 240

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Q10. If 16 dozens bananas cost ₹ 360, then how many bananas can be bought in ₹ 60 ?

1.

A. 16 bananas

B. 48 bananas

C. 32 bananas

D. 50 bananas

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**Correct Option: C**

Let the required number of bananas be N.

16 dozens bananas = 16 x 12 = 192 bananas

Less bananas, Less cost (Direct proportion)

360 : 60 :: 192 : N

∴ N = (60 x 192)/360 = 32 bananas

Q11. certain industrial loom weaves **0.128 meters** of cloth every second. Approximately how many seconds will it take for the loom to weave **25 meters** of cloth?

1.

A. 220

B. 200

C. 170

D. 195

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**Correct Option: D**

A certain industrial loom weaves **0.128 meters** of cloth in **1** second.

A certain industrial loom weaves **1 meters** of cloth in **1/0.128** second.

A certain industrial loom weaves **25 meters** of cloth in **25 x 1/ 0.128** second.

A certain industrial loom weaves **25 meters** of cloth in **195.312** second.

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Q12 .If **18 binders** bind **900** books in **10 days**, How many binders will be required to bind **660** books in **12 days**?

1.

A. 21

B. 14

C. 18

D. 11

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**Correct Option: D**

According to given question,

Since **900** books are bonded in **10 days** by **18 binders**.

∴ **1** books are bonded in **10 days** by **18 / 900 binders**.

∴ **1** books are bonded in **1 days** by **18 x 10 / 900 binders**.

∴ **660** books are bonded in **1 days** by **18 x 10 x 660 / 900 binders**.

∴ **660** books are bonded in **12 days** by **18 x 10 x 660 / 12 x 900 binders**.

∴ **660** books are bonded in **12 days** by **18 x 10 x 55 / 900 binders**.

∴ **660** books are bonded in **12 days** by **18 x 55 / 90 binders**.

∴ **660** books are bonded in **12 days** by **55 / 5 binders**.

∴ **660** books are bonded in **12 days** by **11 binders**.

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Q13.If the Price of **6 toys** is **Rs. 264.37**, What will be the approximate price (Rs) of **5 toys**?

1.

A. 230

B. 120

C. 320

D. 220

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**Correct Option: D**

Given in the question,

Price of **6 toys** is **Rs. 264.37**.

∴ Price of **1 toys** is **Rs. 264.37/ 6** .

∴ Price of **5 toys** is **Rs.  $264.37 \times 5 / 6$**  .

∴ Price of **5 toys** is **Rs.  $44 \times 5$**  .

∴ Price of **5 toys** is **Rs. 220**.

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Q14. A person works on a project and completes **5/8** of the job in **10 days**.  
At this rate, how many more days will he it take to finish the job?

1.

A. 12

B. 16

C. 10

D. 9

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**Correct Option: B**

A person completes **5/8** part of the project in **10 days**.

A person completes the project in **10/5/8 days**.

A person completes the project in **10 x 8 /5 days**.

A person completes the project in **2 x 8 days**.

A person completes the project in **16 days**.

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Q15.A rope can make **70 rounds** of the circumference of a cylinder whose radius of the base is **14 cm**. how many times can it go round a cylinder having radius **20 cm**?

1.

A. 49 rounds

B. 54 rounds

C. 56 rounds

D. 77 rounds

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**Correct Option: A**

Given in the question,

If radius is **14 cm** then rope can make **70** rounds.

If radius is **1 cm** then rope can make **70 x 14** rounds.

If radius is **20 cm** then rope can make **70 x 14 / 20** rounds.

If radius is **20 cm** then rope can make **7 x 7** rounds.

If radius is **20 cm** then rope can make **49** rounds.

Teacher- Piyali Halder