

**ST. LAWRENCE HIGH SCHOOL**

27, BALLYGUNGE CIRCULAR ROAD

**Class : 7****Subject : ARITHMETIC****Term : FINAL TERM****Max Marks : 80****Q 1 :** The probability of getting a multiple of 5 if a two digit number is written down at random is**Marks : 1**

- 1 . 1/5
- 2 . 2/5
- 3 . 3/5
- 4 . 4/5

 (This Answer is Correct)**Q 2 :** The probability of getting an even number if a card is drawn from a box containing 12 identical cards numbered 1, 2, 3,,12 is**Marks : 1**

- 1 . 1/2
- 2 . 1/3
- 3 . 1/4
- 4 . 1/6

 (This Answer is Correct)**Q 3 :** The probability of getting a red ace if a card is drawn at random from pack of 52 cards is**Marks : 1**

- 1 . 1/52
- 2 . 1/26
- 3 . 1/13
- 4 . 3/52

 (This Answer is Correct)**Q 4 :** A racer had travelled 500m when he was at the 1/4 mark. How far would he travel if he did the track twice?**Marks : 1**

- 1 . 500m
- 2 . 1km
- 3 . 2km
- 4 . 4km

 (This Answer is Correct)**Q 5 :** The time to complete a project varies inversely with the number of employees. If 3 people can complete the project in 7 days, how long will it take 5 people?**Marks : 1**

- 1 . 4.2
- 2 . 3
- 3 . 5

 (This Answer is Correct)

4 . 6

Q 6 : Find the square of 0.05**Marks :** 1

- 1 . 0.025
- 2 . 0.0025**
- 3 . 0.00025
- 4 . 2.5e-005

 (This Answer is Correct)

Q 7 : A bag contains 15 balls of which 6 are red, the probability of getting a red ball at random from the bag is**Marks :** 1

- 1 . 5/3
- 2 . 2/5**
- 3 . 5/2
- 4 . 1/3

 (This Answer is Correct)

Q 8 : A coin is tossed. What is the probability of getting head?**Marks :** 1

- 1 . 0
- 2 . 1
- 3 . 1/2**
- 4 . 2

 (This Answer is Correct)

Q 9 : The probability of being chosen for a team is 9%. This event can be described as**Marks :** 1

- 1 . likely
- 2 . certain
- 3 . having an even chance
- 4 . unlikely**

 (This Answer is Correct)

Q 10 : It will be a Thursday in one of the next seven days. The event is**Marks :** 1

- 1 . likely
- 2 . unlikely
- 3 . certain**
- 4 . having an even chance

 (This Answer is Correct)

Q 11 : In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?**Marks :** 1

- 1 . 1/3**

 (This Answer is Correct)

2. $3/4$
 3. $7/19$
 4. $3/7$
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Q 12 : In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize? **Marks :** 1

1. $1/10$
2. $2/5$
3. $2/7$
4. $5/7$

(This Answer is Correct)

Q 13 : A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is: **Marks :** 1

1. $1/52$
2. $1/26$
3. $1/13$
4. $3/52$

(This Answer is Correct)

Q 14 : One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)? **Marks :** 1

1. $1/13$
2. $3/13$
3. $1/4$
4. $9/52$

(This Answer is Correct)

Q 15 : A well-defined collection of distinct objects having a common property **Marks :** 1

1. Group
2. Team
3. Set
4. Element

(This Answer is Correct)

Q 16 : A is the set of factors of 18.Which of the following is not a member of A? **Marks :** 1

1. 2
2. 3
3. 5
4. 9

(This Answer is Correct)

Q 17 : Which one of the following sets is infinite?

Marks : 1

1. The set of whole numbers less than 10
2. The set of prime numbers less than 10
3. The set of integers less than 10
4. The set of factors of 10

(This Answer is Correct)

Q 18 : Individual Objects in a set are called

Marks : 1

1. element
2. set
3. list
4. none of these

(This Answer is Correct)

Q 19 : The set of vowels in English alphabet contains elements

Marks : 1

1. {a, b, c, d, e, f}
2. {a, e, i, o, u}
3. {p, q, r, s, t}
4. {l, m, n, o, p}

(This Answer is Correct)

Q 20 : The mismatched element in the set {8, 1, 64, 75, 27} is

Marks : 1

1. 8
2. 1
3. 27
4. 75

(This Answer is Correct)

Q 21 : The set $\{x: x \text{ is an odd number between } 10 \text{ and } 18\}$

Marks : 1

1. {11, 12, 13, 15, 17}
2. {12, 16, 15, 13}
3. {11, 13, 15, 17}
4. {12, 14, 16, 18}

(This Answer is Correct)

Q 22 : Set Q contains the letters in the word SISTER . Which of the following is set Q ?

Marks : 1

1. $Q = \{S, T, R\}$
2. $Q = \{I, E\}$
3. $Q = \{S, I, S, T, E, R\}$
4. $Q = \{S, I, T, E, R\}$

(This Answer is Correct)

Q 23 : $P = \{a, b, c, d, e, f, g, h, i, j, k, l, m\}$

Marks : 1

1. Roster form
2. Universal form
3. Set builder form
4. Equivalent Inequalities

(This Answer is Correct)

Q 24 : Given $S = \{m, 4, 7, 9\}$ and $T = \{4, 9, 3, n\}$. If set S and set T are equal sets, the value of $m + n$ =

Marks : 1

1. 14
2. 12
3. 10
4. 8

(This Answer is Correct)

Q 25 : $A = \{x : x \text{ is a letter in the word SEAT}\}$ $B = \{x : x \text{ is a letter in the word TASTE}\}$ Determine if these two sets are equal or equivalent.

Marks : 1

1. Not equal because seat has 4 letters and taste has 5 letters.
2. Equivalent because they have the same letters
3. Equal because each set has the same cardinality and the same letters.
4. None of these

(This Answer is Correct)

Q 26 : $\{x \mid x \text{ is a Marymount Student}\}$

Marks : 1

1. Roster form
2. Universal form
3. Set builder form
4. Equivalent Inequalities

(This Answer is Correct)

Q 27 : What type of set is denoted as either $\{\}$ or \emptyset ?

Marks : 1

1. Superset
2. Subset
3. Null set
4. universal set

(This Answer is Correct)

Q 28 : The cardinal number of the set of the letters of the word 'SCHOOL' is

Marks : 1

1. 6
2. 5
3. 7
4. 4

(This Answer is Correct)

Q 29 : If $A=\{a,e,i,o,u\}$ and $B=\{1,2,3,4,5\}$ then A and B are

Marks : 1

1. Subset
2. Equivalent
3. Equal
4. None of these

(This Answer is Correct)

Q 30 : 9 cds costs Rs 45, 5 cds will cost Rs_

Marks : 1

1. 52
2. 630
3. 25
4. 360

(This Answer is Correct)

Q 31 : Cost of 12 pens isRs 108, cost of 5 will be Rs ____

Marks : 1

1. 54
2. 45
3. 540
4. 454

(This Answer is Correct)

Q 32 : If one hat is worth 12 rupees, then what will be worth of 5 hats ?

Marks : 1

1. Rs 30
2. Rs 40
3. Rs 50
4. Rs 60

(This Answer is Correct)

Q 33 : If 20 kg of cake is ordered for 100 people in a party, how much cake will be needed for 250 people?

Marks : 1

1. 40 kg
2. 50 kg
3. 30 kg
4. 60 kg

(This Answer is Correct)

Q 34 : 5 buses carry 325 passengers how many passengers can be carried by 8 such buses?

Marks : 1

1. 430
2. 520
3. 510
4. 340

(This Answer is Correct)

Q 35 : The annual rent for a house is Rs 36,000. What will be the rent for 5 months?

Marks : 1

- 1 . 14000
- 2 . 15000
- 3 . 18000
- 4 . 20000

(This Answer is Correct)

Q 36 : 8 men can do a piece of work in 28 days. In how many days will 16 men do the work?

Marks : 1

- 1 . 7
- 2 . 14
- 3 . 28
- 4 . 35

(This Answer is Correct)

Q 37 : A can do a piece of work in 6 days. B can do the same work in 12 days. In how many days can they do it together?

Marks : 1

- 1 . 4
- 2 . 6
- 3 . 8
- 4 . 9

(This Answer is Correct)

Q 38 : A tank is filled by a water tap in 12 hours and emptied by an outlet in 16 hours. In what time if both are open, will the tank be filled?

Marks : 1

- 1 . 12 hr
- 2 . 16 hr
- 3 . 24 hr
- 4 . 36 hr

(This Answer is Correct)

Q 39 : A and B together finish a work in 5 days. If A can alone do the work in 10 days how much time will B take to do the work alone?

Marks : 1

- 1 . 5 days
- 2 . 10 days
- 3 . 15 days
- 4 . 20 days

(This Answer is Correct)

Q 40 : It would take 4 people 15 hours to clear the trees from some land. How many people will be needed to complete the work in 6 hours?

Marks : 1

- 1 . 10 men
- 2 . 15 men

(This Answer is Correct)

- 3 . 18 men
 - 4 . 20 men
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Q 41 : Evaluate $(-475)+318$

Marks : 1

- 1 . 157
- 2 . -157**
- 3 . 793
- 4 . -793

(This Answer is Correct)

Q 42 : Evaluate $(-728) - (-415)$

Marks : 1

- 1 . -313**
- 2 . 313
- 3 . 1143
- 4 . -1143

(This Answer is Correct)

Q 43 : Evaluate $(-18+12-(-4) +(-16))$

Marks : 1

- 1 . 18
- 2 . -18**
- 3 . 36
- 4 . -36

(This Answer is Correct)

Q 44 : What is the additive inverse of 28?

Marks : 1

- 1 . $1/28$
- 2 . $4/7$
- 3 . -28**
- 4 . 14

(This Answer is Correct)

Q 45 : If the temperature falls from 10 degree C to -2 oC what is the change in temperature?

Marks : 1

- 1 . (-4 degree C)
- 2 . 4 degree C
- 3 . 12 degree C**
- 4 . (-12 degree C)

(This Answer is Correct)

Q 46 : Evaluate $(-25)\times 10$

Marks : 1

- 1 . 250
- 2 . (-250)**

(This Answer is Correct)

3 . 12.5

4 . 2.5

Q 47 : Find x if $(-x) \times (-3) = 12$ **Marks :** 1

1 . 2

2 . 3

3 . 4

4 . (-4)

 (This Answer is Correct)

Q 48 : If you earn Rs 100 a week and spend Rs 25 a week what is the amount saved in three weeks?**Marks :** 1

1 . 150

2 . 225

3 . 300

4 . 450

 (This Answer is Correct)

Q 49 : Evaluate $(-412) \times (-2)$ **Marks :** 1

1 . (-824)

2 . 824

3 . (-206)

4 . 206

 (This Answer is Correct)

Q 50 : The time needed to travel a certain distance varies inversely with the rate of speed. If it takes 8 hours to travel a certain distance at 36 miles per hour, how long will it take to travel the same distance at 60 miles per hour?**Marks :** 1**1 . 4.8**

2 . 5

3 . 6

4 . 5.2

 (This Answer is Correct)

Q 51 : Evaluate $(-16) \times 0 \times (-10)$ **Marks :** 1

1 . 16

2 . 0

3 . 10

4 . 160

 (This Answer is Correct)

Q 52 : Evaluate $(-125)/5$ **Marks :** 1

1. 25
2. (-25)
3. (-120)
4. 625

(This Answer is Correct)

Q 53 : Evaluate $(-128) / (-32)$

Marks : 1

1. 1
2. 2
3. 3
4. 4

(This Answer is Correct)

Q 54 : Evaluate $(-3 \times 6 + 2) / (-4)$

Marks : 1

1. (-4)
2. 4
3. 16
4. (-8)

(This Answer is Correct)

Q 55 : Evaluate $|12 + (-34)|$

Marks : 1

1. 22
2. (-22)
3. 46
4. (-46)

(This Answer is Correct)

Q 56 : The next number in the pattern -48,-33, -18, _____ is

Marks : 1

1. 15
2. 3
3. (-3)
4. 0

(This Answer is Correct)

Q 57 : A ratio equivalent to 3 : 8 is:

Marks : 1

1. 3:9
2. 6:10
3. 9:24
4. 19:24

(This Answer is Correct)

Q 58 : The ratio 35 : 98 in simplest form is:

Marks : 1

- 1 . 5:8
- 2 . 7:14
- 3 . 5:14**
- 4 . none of these

(This Answer is Correct)

Q 59 : In a class there are 24 boys and 15 girls. The ratio of boys to girls is:

Marks : 1

- 1 . 8:5**
- 2 . 5:8
- 3 . 8:3
- 4 . 3:5

(This Answer is Correct)

Q 60 : Two numbers are in the ratio 9 : 7. If the sum of the numbers is 112, then the larger number is:

Marks : 1

- 1 . 49
- 2 . 72
- 3 . 63**
- 4 . 42

(This Answer is Correct)

Q 61 : The ratio of 1.2 m to 10 cm is:

Marks : 1

- 1 . 1:12
- 2 . 12:10
- 3 . 10:12
- 4 . 12:1**

(This Answer is Correct)

Q 62 : The ratio of 1 hour to 6 min is:

Marks : 1

- 1 . 1:10
- 2 . 10:1**
- 3 . 5:1
- 4 . 1:5

(This Answer is Correct)

Q 63 : The first, second and fourth terms of a proportion are 16, 24 and 78 respectively. Then the third term is:

Marks : 1

- 1 . 52**
- 2 . 39
- 3 . 65
- 4 . 26

(This Answer is Correct)

- Q 64 :** The length and breadth of a rectangle are in the ratio 4 : 1. If the breadth is 7 cm, then the length of the rectangle is: **Marks : 1**
- 1 . 12 cm
 - 2 . 16 cm
 - 3 . 28 cm** (This Answer is Correct)
 - 4 . 20 cm
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- Q 65 :** Find the value of m, if 3, 18, m, 48 are in proportion is: **Marks : 1**
- 1 . 6
 - 2 . 56
 - 3 . 8** (This Answer is Correct)
 - 4 . none of these
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- Q 66 :** Find the square root of 441 **Marks : 1**
- 1 . 19
 - 2 . 21** (This Answer is Correct)
 - 3 . 29
 - 4 . 31
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- Q 67 :** Find the square root of 8.41 **Marks : 1**
- 1 . 1.9
 - 2 . 2.1
 - 3 . 2.9** (This Answer is Correct)
 - 4 . 3.1
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- Q 68 :** What is the least number by which 180 should be divided to make it a perfectly square number? **Marks : 1**
- 1 . 2
 - 2 . 3
 - 3 . 5** (This Answer is Correct)
 - 4 . 7
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- Q 69 :** Find the cube of 50 **Marks : 1**
- 1 . 1250
 - 2 . 12500
 - 3 . 125000** (This Answer is Correct)
 - 4 . 1250000

Q 70 : What is the cube root of 64

Marks : 1

1. 12
2. 16
- 3. 4**
4. 8

(This Answer is Correct)

Q 71 : Find the cube root of 0.008

Marks : 1

1. 0.02
- 2. 0.2**
3. 0.002
4. 0.4

(This Answer is Correct)

Q 72 : Find the cube root of $(-216) \times 343$

Marks : 1

1. (-21)
- 2. (-42)**
3. 21
4. 42

(This Answer is Correct)

Q 73 : Which of the following is used to represent graphical data?

Marks : 1

1. Bar graph
2. Line graph
3. Pie charts
- 4. All of these**

(This Answer is Correct)

Q 74 : What is the probability of getting a sum 9 from two throws of a dice?

Marks : 1

1. $1/6$
- 2. $1/9$**
3. $1/8$
4. $1/12$

(This Answer is Correct)

Q 75 : Three unbiased coins are tossed. What is the probability of getting at most two heads?

Marks : 1

1. $3/4$
2. $1/4$
3. $3/8$
- 4. $7/8$**

(This Answer is Correct)

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- Q 76 :** Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even? **Marks :** 1
1. $1/2$
 2. $3/4$ (This Answer is Correct)
 3. $3/8$
 4. $5/16$
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- Q 77 :** Two dice are tossed. The probability that the total score is a prime number is: **Marks :** 1
1. $1/6$
 2. $5/12$ (This Answer is Correct)
 3. $1/2$
 4. $7/9$
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- Q 78 :** The amount of money earned on a job is directly proportional to the number of hours worked. If Rs 70.00 is earned in 5 hours, how much money is earned in 22 hours of work? **Marks :** 1
1. Rs 2
 2. Rs 308 (This Answer is Correct)
 3. Rs 230
 4. Rs 475
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- Q 79 :** Find the ratio of the price of bananas bought at Rs 72 a dozen to the price of guavas bought at two for Rs 20 **Marks :** 1
1. 3:5 (This Answer is Correct)
 2. 18:5
 3. 5:18
 4. 72:20
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- Q 80 :** What is the least number which should be multiplied to 1008 so as to make it a perfect square number? **Marks :** 1
1. 2
 2. 3
 3. 5
 4. 7 (This Answer is Correct)
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