International FSP Contests

EXHIBIT YOUR SKILLS TO THE WORLD

FSP Mathematics Contest

2025 QUESTION BOOKLET

VOLUME-21

GRADE 7 & 8

VIBRANT YOUNGSTERS

Time Allowed : 90 Minutes
Maximum Marks : 90

INSTRUCTIONS FROM THE EXAMINATION INVIGILATORS

1) Invigilators must be carried out promptly.
2) Don't start attempting the paper until instructed by the invigilator.
3) Carefully recheck your name, father name, school name, address etc. at the bubble sheet / answer sheet.
4) Record all answers on the bubble sheet only. select best answer from the four given options and mark only one option in each question.
5) Use blue / black ink to fill up the circles for your answers on the bubble sheet use of lead pencil is not allowed.
6) Use of any helping material including cell phones and electronic devices is strictly prohibited.
7) Every correct answer earns three points. there would be negative marking. one point would be deducted for every incorrect answer.
8) Candidates may not leave the examination room unescorted for any reason, and this includes using the washroom.
9) No materials or electronic devices shall be brought in to the room.
10) There are five categories of the contest as under:

A	Vibrant youngsters Grade 1 & 2
B	Vibrant youngsters Grade 3 & 4
C	Vibrant youngsters Grade 5 & 6
D	Vibrant youngsters Grade 7 & 8
E	Vibrant youngsters Grade 9 & 10 / 0-levels

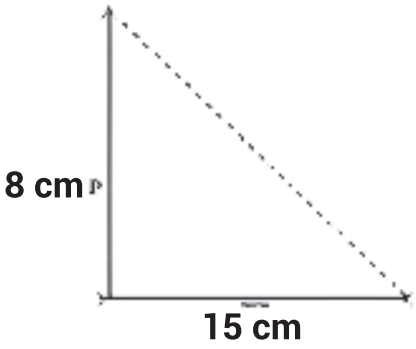
11) Only registered students can participate in the contest.
12) No candidate shall take out of the hall any answer book(s) or part of an answer book, whether used or unused, or other supplied material.
13) If a participant does not understand a word or phrase on the exam paper, neither examiner nor invigilator is permitted to answer.
14) for information about upcoming contests or providing valuable feedback, please visit www.fspcompetitions.org
15) Any academic misconduct or malpractice must be reported to FSP vibrant youngsters at **info@fspcompetitions.org**

Q 1. **The perimeter of a rectangle is 64 cm. If its length is 20 cm, what is its width?**

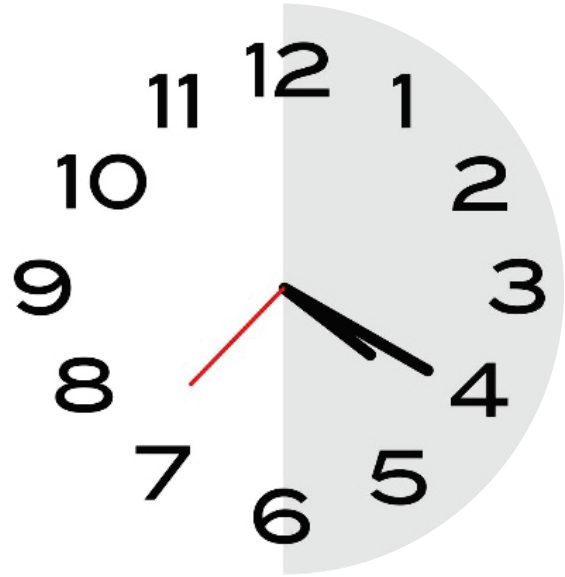
- **A** 10 cm
- **B** 12 cm
- **C** 14 cm
- **D** 16 cm

Q 2. **The base of a triangle is 15 cm and its height is 8 cm. Find its area.**

- **A** 50 cm²
- **B** 55 cm²
- **C** 60 cm²
- **D** 65 cm²



Q 3. **A clock shows 4:20. What is the angle between the hour and minute hands?**



A 10°
B 15°
C 20°
D 25°

Q 4. **The probability of rolling a number greater than 4 on a fair die is:**

A 1/2
B 1/3
C 1/6
D 2/3

Q 5. **If 35% of a number is 140, what is the number?**

A 380
B 390
C 400
D 410

Q 6. **A shopkeeper increased the price of a shirt from Rs. 800 to Rs. 960.**

What is the increase in percentage?

A 18%
B 20%
C 22%
D 25%

Q 7. **A cube has a volume of 1331 cm^3.**

What is its edge length?

A 9 cm
B 10 cm
C 11 cm
D 12 cm

Q 8. **A man walks 6 km north, then 8 km east. How far is he from his starting point?**

A 10 km

B 12 km

C 14 km

D 15 km

Q 9. **Simplify: (7/8÷14/16) × (4/7) (7/8 ÷ 14/16) × (4/7) (7/8÷14/16) × (4/7).**

A 1/2

B 4/7

C 8/9

D 1

Q 10. **The average of 15, 25, 35, and 45 is:**

A 25

B 30

C 32.5

D 35

Q 11. **If $9x - 14 = 49$, what is x?**

A 6

B 7

C 8

D 9

Q 12. **A tank holds 80 liters of water. If 30 liters are used, what fraction remains full?**

A 1/2

B 5/8

C 3/8

D 2/5

Q 13. **A car travels at 90 km/h. How long will it take to cover 270 km?**

A 2.5 hours

B 3 hours

C 3.5 hours

D 4 hours

Q 14. **The next prime number after 89 is:**

A 91

B 97

C 101

D 103

Q 15. **The simple interest on Rs. 2500 at 10% per year for 4 years is:**

A Rs. 900

B Rs. 950

C Rs. 1000

D Rs. 1050

Q 16. **If a = 7, b = 4, evaluate: $a^2 - b^2 + a + b$**

A 35

B 37

C 40

D 44

Q 17. **What is the probability of drawing a black card from a standard deck of 52 cards?**

A 1/4

B 1/2

C 2/3

D 3/4

Q 18. **The square root of 1156 is:**

A 32

B 33

C 34

D 35

Q 19. **The mean of first 20 natural numbers is:**

A 9.5

B 10.5

C 11

D 11.5

Q 20. **Solve: 3/8 of 640 = ?**

A 220
B 230
C 240
D 250

Q 21. **A train travels at 72 km/h. How far will it go in 2 hours 30 minutes?**

A 160 km
B 170 km
C 175 km
D 180 km

Q 22. **Which of the following is an irrational number?**

A √7
B 3/4
C 2.5
D −5

Q 23. **If the ratio of girls to boys is 3:5 and there are 40 students, how many are girls?**

A 15

B 20

C 24

D 25

Q 24. **Expand: (x+6) (x−6) (x + 6) (x − 6) (x+6) (x−6).**

A $x^2 - 36$

B $x^2 + 36$

C $x^2 + 12x - 36$

D $x^2 - 12x + 36$

Q 25. **Convert 0.625 into a fraction.**

A 3/5

B 5/8

C 7/10

D 2/3

Q 26. **Which of these has the greatest value?**

A 0.63
B 5/8
C 62%
D 0.6

Q 27. **What is the LCM of 24 and 36?**

A 72
B 84
C 90
D 108

Q 28. **A sum of Rs. 7200 is divided between A and B in the ratio 5:4. How much does B get?**

A Rs. 2800
B Rs. 3000
C Rs. 3200
D Rs. 3400

Q 29. **If today is Friday, what day will it be 65 days later?**

A Sunday
B Monday
C Tuesday
D Wednesday

Q 30. **Solve: (96÷8) + (84÷12)**

A 17
B 18
C 19
D 20

NOTES

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ANSWER SHEET

GRADE 7 & 8

Q.NO	ANSWER	Q.NO	ANSWER
1	Ⓐ ● Ⓒ Ⓓ	16	Ⓐ Ⓑ Ⓒ ●
2	Ⓐ Ⓑ ● Ⓓ	17	Ⓐ ● Ⓒ Ⓓ
3	● Ⓑ Ⓒ Ⓓ	18	Ⓐ Ⓑ ● Ⓓ
4	Ⓐ ● Ⓒ Ⓓ	19	Ⓐ ● Ⓒ Ⓓ
5	Ⓐ Ⓑ ● Ⓓ	20	Ⓐ Ⓑ ● Ⓓ
6	Ⓐ ● Ⓒ Ⓓ	21	Ⓐ Ⓑ Ⓒ ●
7	Ⓐ Ⓑ ● Ⓓ	22	● Ⓑ Ⓒ Ⓓ
8	● Ⓑ Ⓒ Ⓓ	23	● Ⓑ Ⓒ Ⓓ
9	● Ⓑ Ⓒ Ⓓ	24	● Ⓑ Ⓒ Ⓓ
10	Ⓐ ● Ⓒ Ⓓ	25	Ⓐ ● Ⓒ Ⓓ
11	Ⓐ ● Ⓒ Ⓓ	26	● Ⓑ Ⓒ Ⓓ
12	Ⓐ ● Ⓒ Ⓓ	27	● Ⓑ Ⓒ Ⓓ
13	Ⓐ ● Ⓒ Ⓓ	28	Ⓐ Ⓑ ● Ⓓ
14	Ⓐ ● Ⓒ Ⓓ	29	Ⓐ Ⓑ Ⓒ ●
15	Ⓐ Ⓑ ● Ⓓ	30	Ⓐ ● Ⓒ Ⓓ

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