

FREE PRACTICE PACK · EDITION 1

Class 5 Mathematics Olympiad practice

16 original questions + explained answers

For students preparing for SOF IMO.

Inside this pack

Eight topic-practice questions and an eight-question, 20-minute mini-mock.

Topics selected for practice

- Whole numbers and operations
- Fractions and decimals
- Geometry and measures
- Data and reasoning

How to use it

Try the practice first. Complete the mini-mock in one sitting. Check the explanations, mark mistakes, and retry them the next day.

This pack covers selected topics. It is original BodhiScore material, independent of SOF, and is not an official paper or a full-length exam. Check the official syllabus for the complete scope.

Topic practice

Work through these eight questions without a timer. Explain your choice before checking the solutions.

1. Whole numbers and operations

Evaluate $6,405 + 2,798$.

A. 9,203

B. 9,303

C. 9,193

D. 9,103

2. Fractions and decimals

What is $\frac{2}{3}$ of 30?

A. 15

B. 20

C. 23

D. 10

3. Geometry and measures

A rectangle has length 15 cm and width 6 cm. What is its area?

A. 42 cm^2

B. 90 cm^2

C. 180 cm^2

D. 21 cm^2

4. Data and reasoning

Find the next term: 2, 5, 11, 23, ____.

A. 45

B. 47

C. 48

D. 35

Topic practice (continued)

5. Whole numbers and operations

A shop packs 24 pencils in a box. How many pencils in 18 boxes?

- | | |
|---------------|---------------|
| A. 442 | B. 412 |
| C. 422 | D. 432 |
-

6. Fractions and decimals

A jug holds 4.8 L. It is poured equally into 6 bottles. How much in each bottle?

- | | |
|-----------------|-----------------|
| A. 2.8 L | B. 0.6 L |
| C. 0.8 L | D. 1.2 L |
-

7. Geometry and measures

A square has area 64 cm^2 . What is its perimeter?

- | | |
|-----------------|-----------------|
| A. 24 cm | B. 32 cm |
| C. 64 cm | D. 16 cm |
-

8. Data and reasoning

A train travels 180 km in 3 hours at a steady speed. How far per hour?

- | | |
|-----------------|-----------------|
| A. 70 km | B. 90 km |
| C. 50 km | D. 60 km |
-

Timed mini-mock

Set a 20-minute timer for these eight questions. Score 1 point per correct answer; there is no penalty for an incorrect answer. This is BodhiScore's practice scoring.

9. Whole numbers and operations

What is 7,200 divided by 24?

A. 320

B. 3,000

C. 30

D. 300

10. Fractions and decimals

A recipe uses $\frac{3}{4}$ cup of milk. How much milk is needed for half the recipe?

A. $\frac{3}{2}$ cups

B. $\frac{1}{4}$ cup

C. $\frac{3}{8}$ cup

D. $\frac{1}{2}$ cup

11. Geometry and measures

A rectangular floor is 8 m by 5 m. A square mat of side 2 m covers part of it. How many square metres remain uncovered?

A. 28

B. 32

C. 36

D. 40

Timed mini-mock (continued)

12. Data and reasoning

The mean of 6, 8 and one other number is 9. What is the third number?

- | | |
|--------------|--------------|
| A. 11 | B. 12 |
| C. 13 | D. 10 |
-

13. Whole numbers and operations

A 3-digit number has digits summing to 12. Its hundreds digit is 5 and tens digit is 3. What is its ones digit?

- | | |
|-------------|-------------|
| A. 4 | B. 5 |
| C. 2 | D. 3 |
-

14. Fractions and decimals

Which is greatest?

- | | |
|----------------|-------------------------|
| A. 0.58 | B. $\frac{3}{5}$ |
| C. 0.6 | D. $\frac{5}{8}$ |
-

Timed mini-mock (continued)

15. Geometry and measures

A 2 m 35 cm ribbon is joined to a 1 m 80 cm ribbon. What is the total length?

A. 4 m 15 cm

B. 4 m 25 cm

C. 3 m 15 cm

D. 4 m 5 cm

16. Data and reasoning

Three consecutive multiples of 7 have middle value 28. What is their sum?

A. 84

B. 91

C. 98

D. 77

Answers and explanations

Check why the answer works, then retry any question you missed.

1. A - 9,203

Adding by place value gives $6,405 + 2,798 = 9,203$.

2. B - 20

One third of 30 is 10, so two thirds is 20.

3. B - 90 cm²

Area is length x width = $15 \times 6 = 90 \text{ cm}^2$.

4. B - 47

Each term is double the previous term plus 1; $23 \times 2 + 1 = 47$.

5. D - 432

$24 \times 18 = 24 \times (20 - 2) = 480 - 48 = 432$.

6. C - 0.8 L

4.8 divided by 6 equals 0.8 L per bottle.

7. B - 32 cm

The side is 8 cm; four sides total 32 cm.

8. D - 60 km

180 divided by 3 = 60 km per hour.

9. D - 300

$24 \times 300 = 7,200$, so the quotient is 300.

Answers and explanations (continued)

10. C - $\frac{3}{8}$ cup

Half of $\frac{3}{4}$ is $\frac{3}{8}$ cup.

11. C - 36

Floor area is 40 m^2 ; mat area is 4 m^2 ; uncovered area is 36 m^2 .

12. C - 13

A mean of 9 gives total 27; $27 - 6 - 8 = 13$.

13. A - 4

$5 + 3 + 4 = 12$, so the ones digit is 4.

14. D - $\frac{5}{8}$

$\frac{5}{8} = 0.625$, greater than 0.6, 0.58 and $\frac{3}{5} = 0.6$.

15. A - 4 m 15 cm

$235 \text{ cm} + 180 \text{ cm} = 415 \text{ cm} = 4 \text{ m } 15 \text{ cm}$.

16. A - 84

The values are 21, 28, 35; their sum is 84.

Topic scope checked against SOF syllabus: [SOF IMO Class 5 syllabus](#)