

Markhor Junior Contest 2021

Learner Level (CLASS III & IV) Mathematics

Time Allowed 60 Minutes

There are 19 problems, graded as follows:

Questions 1-5 are 1 point each,

Questions 6-10 are 2 points each,

Questions 11-15 are 3 points each,

Questions 16-19 are 5 points each.

1. Identify the number that is not classified as either positive or negative.

a) 0

b) 1

c) -1

d) 100

2. What is the smallest composite number?

a) 2

b) 3

c) 4

d) 5

3. What is 10% of 50?

a) 10

b) 20

c) 5

d) 15

e)

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4. How many weeks are in a year?

- a) 50
- b) 52
- c) 54
- d) 60

5. What is the value of $10 \div 10 \div 10 \div 10$

- a) 10
- b) 1
- c) 0.1
- d) 0.01

6. What does the digit 8 in 35.824 stand for?

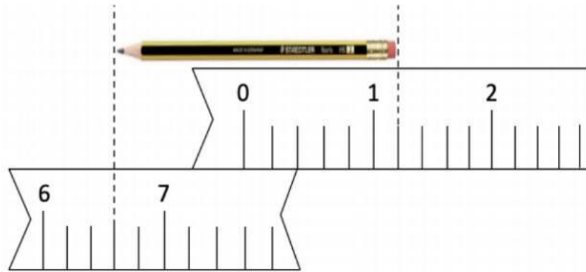
- a) Tenth
- b) Hundred
- c) Hundredth
- d) Ten

7. What is the missing denominator? $\frac{6}{10} = \frac{15}{?}$

- a) 15
- b) 30
- c) 25
- d) 50

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8. What is the length of pencil?



- a) 2 cm
- b) 2.2 cm
- c) 2.1cm
- d) 8 cm

9. Mary has \$84 552 in her bank account. Round this amount to the nearest thousand.

- a) \$85 000
- b) \$84 000
- c) \$90 000
- d) \$80 000

10. Express 10 meters 20 centimeters in centimeters.

- a) 2010 cm
- b) 1020 cm
- c) 2010 cm
- d) 1200 cm

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11. Arrange these fractions from smallest to largest:

$$\frac{2}{4}, \frac{2}{3}, 1\frac{1}{2}, \frac{5}{6}$$

a) $\frac{2}{4}, \frac{2}{3}, 1\frac{1}{2}, \frac{5}{6}$

b) $\frac{2}{4}, \frac{2}{3}, \frac{5}{6}, 1\frac{1}{2}$

c) $1\frac{1}{2}, \frac{2}{4}, \frac{2}{3}, \frac{5}{6}$

d) $\frac{5}{6}, \frac{2}{4}, \frac{2}{3}, 1\frac{1}{2}$

12. Express 5.02 kg as grams.

a) 5200 g

b) 2500 g

c) **5020 g**

d) 2050 g

13. What is 1.25 expressed as a percentage?

a) 12.5%

b) **125%**

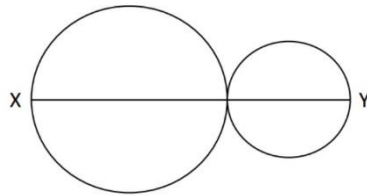
c) 1.25%

d) 0.0125%

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- 14. A diagram shows two adjacent circles intersected by line XY. The length of XY, which passes through both centers, is 12 cm. Calculate the perimeter of the combined shape.**

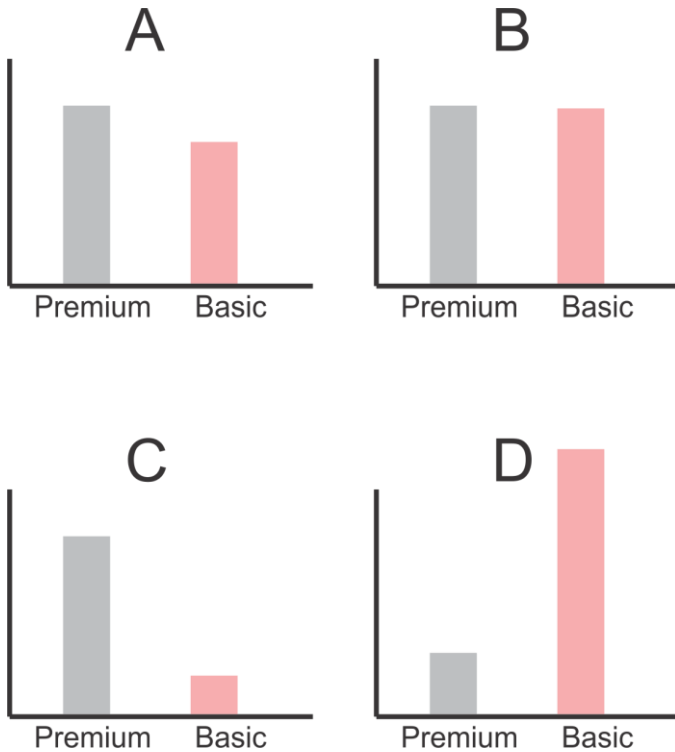
- a) 6π cm
- b) 24π cm
- c) 12π cm
- d) 144π cm



- 15. A school's science department has microscopes and telescopes. The number of microscopes is 120% of the number of telescopes. Which bar graph correctly represents this data?**

- a) A
- b) B
- c) C
- d) D

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16. A tech company had a ratio of 10:13 for software to hardware engineers. After hiring 30% more software engineers, there were 180 more hardware engineers on staff. How many hardware engineers were there?

- a) 180
- b) 210
- c) 300
- d) 390

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17. Sofia's height is 150 cm. Isabella is 15 cm taller than Sofia and 3 cm smaller than Olivia. Identify the tallest.

- a) **Olivia**
- b) Isabella
- c) Sofia
- d) None of them



18. 1. Amal has 50 more pens than Kenza. Leila has 20 more pens than Kenza. They have 145 pens altogether. How many pens does Kenza have?

- a) 15
- b) **25**
- c) 18
- d) 50

19. Ayan had 20 marbles more than Khalil. Khalil gave Ayan 4 marbles. Now Ayan has 3 times (thrice) as many marbles as Khalil. How many marbles did Khalil have at first?

- a) 25
- b) 18
- c) 27
- d) 24