

QUESTION PAPER

PAKISTAN MATHS CONTEST JUNIORS (GRADE 5 & 6)

TIME ALLOWED: 90 MINUTES

MAXIMUM MARKS: 90

TOTAL QUESTIONS: 30 MCQS

INSTRUCTIONS

1. DON'T OPEN THIS BOOKLET UNTIL INSTRUCTED.
2. WRITE YOUR NAME, FATHER NAME, SCHOOL ETC AT THE BUBBLE SHEET ONLY.
3. RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY.
4. 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.
6. USE OF ANY HELPING MATERIAL INCLUDING CELL PHONES AND ELECTRONIC DEVICES IS STRICTLY PROHIBITED.
7. EVERY CORRECT ANSWER EARNS THREE POINTS.
8. ONE POINT WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER.



**International
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Q1. Mr. Freeman has a cracked tooth and needs to get it fixed. He can pay his regular dentist \$969 or go to the dental college for only \$851. How much will he save if he goes to the dental college?

- a. 181
- b. 118
- c. 1820
- d. 969

Q2. A print shop ordered 79 shipments of newsprint. There were 7,126 sheets of newsprint in each shipment. About how many sheets of newsprint did the print shop order in all? Choose the better estimate.

- a. 560,000
- b. 660,000
- c. 700,000
- d. 760,000

Q3. Austin has 18 more orange pencils than green pencils, and 9 more green pencils than blue pencils. The blue pencils are 3 centimetres shorter than the orange and green pencils. How many orange, green, and blue pencils does Austin have in all?

- a. 75
- b. 56
- c. 66
- d. There is not much information to solve this problem

Q4. Manuel had 22 CDs until he won c more in a contest. Choose the expression that shows how many CDs Manuel has now.

- a. $22 - c$
- b. c
- c. $c - 22$
- d. $22 + c$





Q5. Michael swims faster than Linda. Linda swims faster than Jayden. Christopher swims faster than Linda. Who swims the slowest?

- a. Jayden
 - b. Christopher
 - c. Linda
 - d. Michael
-

Q6. 1521000 books are to be arranged equally in shelves. If 3900 books are arranged in each shelf, how many shelves will be needed?

- a. 380
 - b. 390
 - c. 400
 - d. 410
-

Q7. Roxanne used a crayon to draw a shape on a piece of paper. The shape had 2 acute angles and 2 obtuse angles. Which shape could Roxanne have drawn?

- a. 
 - b. 
 - c. 
 - d. 
-

Q8. Which of these is a unit of measure for the mass of a bag of apples?

- a. kilogram
 - b. kilometre
 - c. cubic inches
 - d. square inches
-

Q9. For breakfast, Brennan bought a muffin for \$3.10 and a cup of coffee for \$2.55. For lunch, Brennan had soup, a salad, and lemonade. The soup cost \$2.10, the salad cost \$4.65, and the lemonade cost \$1.55. How much more money did Brennan spend on lunch than on breakfast?

- a. 3.55
 - b. 3.65
 - c. 3.75
 - d. 3.85
-

Q10. A builder has some red and grey bricks. The red bricks weigh 4 kilograms each, and the grey bricks weigh 8 kilograms each. If the total weight of all 6 bricks is 28 kilograms, how many of each type of brick does Pam have?

- a. 4 red, 2 grey
- b. 3 red, 2 grey
- c. 2 red, 4 grey
- d. 5 red, 2 grey

Q11. Jeff's family ordered pizza to eat during an American football game. Jeff ate $\frac{3}{10}$ of a pizza. His mother ate $\frac{1}{10}$ of a pizza, and his father ate $\frac{3}{10}$ of a pizza. How much pizza is left?

- a. $\frac{1}{10}$
- b. $\frac{3}{10}$
- c. $\frac{6}{10}$
- d. $\frac{7}{10}$

Q12. A gum factory made 9,858 sticks of gum. After arranging the sticks into packs, the factory did not have any extra sticks of gum. How many sticks of gum could the factory be putting in each pack?

- a. 2
- b. 10
- c. 5
- d. 9

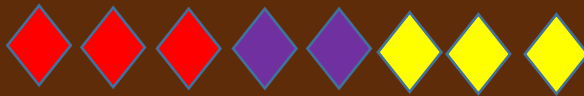
Q13. Candice's Snack Shop sells small, medium, and large sodas. Yesterday, they sold 18 large sodas and 10 more medium sodas than large sodas. They also sold 8 containers of popcorn. Candice's Snack Shop also sold 12 small sodas yesterday. How many total sodas did Candice's Snack Shop sell yesterday?

- a. 58
- b. 49
- c. 69
- d. There is not enough information to solve this problem.

Q14. A lollipop factory used 215 kilograms of sugar to make 4 batches of lollipops. How much sugar did the factory put in each batch?

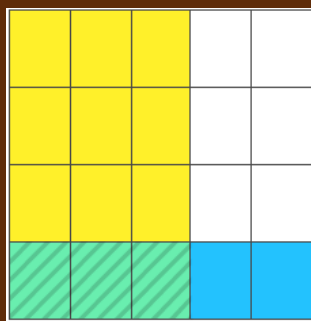
- a. 43.75 kg
 - b. 53.75 kg
 - c. 57.35 kg
 - d. 57.25 kg
-

Q15. What fraction of the diamonds are not purple?



- a. $\frac{2}{8}$
 - b. $\frac{6}{8}$
 - c. $\frac{3}{5}$
 - d. $\frac{3}{8}$
-

Q16. Use the model to complete the multiplication sentence.



$$\frac{3}{5} \times \frac{1}{?} = \frac{3}{20}$$

- a. 2
 - b. 3
 - c. 4
 - d. 4
-

Q17. A sports shop has 80 employees. 10% of the employees work part-time. How many part-time employees does the sports shop have?

- a. 8
 - b. 10
 - c. 18
 - d. 80
-

Q18. Which is greater??

- a. 40% of 85
 - b. 10% of 95
 - c. 70% of 35
 - d. 90% of 25
-

Q19. The books at the library are split among 18 shelves. There are 5 books on each shelf. Which equation, when solved, will tell how many books are in the library?

- a. $18 + b = 5$
 - b. $b \div 18 = 5$
 - c. $5 + 18 = b$
 - d. $b - 18 = 5$
-

Q20. 3 hours 38 minutes + 4 hours 13 minutes = ?

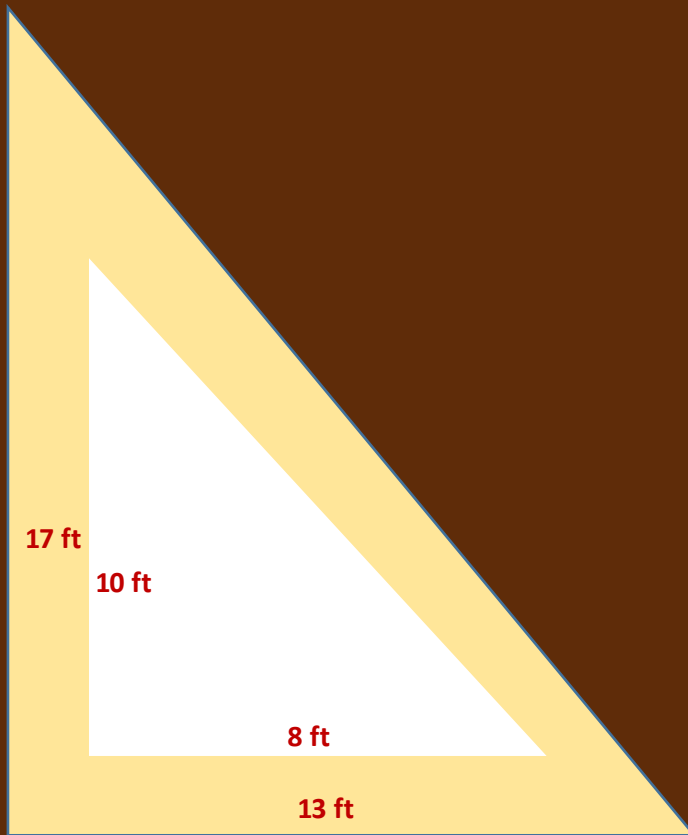
- a. 8 hours 51 minutes
 - b. 7 hours 51 minutes
 - c. 8 hours 1 minute
 - d. 7 hours 41 minutes
-

Q21. The sale price of a coffee table after discount is \$20. What was the original price?



- a. \$27.76
 - b. \$30.76
 - c. \$33.76
 - d. \$36.76
-

Q22. What is the area of the shaded region?



- a. 65.5 square feet
- b. 70.5 square feet
- c. 75.5 square feet
- d. 80.5 square feet

Q23. Cara measured the button on her jacket. Then she calculated that it has an area of 50.24 square millimeters. What is the button's circumference?

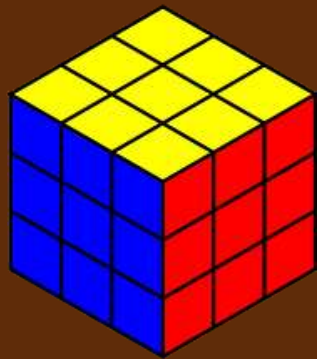
- a. 22.5 millimeters
- b. 23.5 millimeters
- c. 25.12 millimeters
- d. 27.15 millimeters

Q24. If the mode is 13, which number could k be?

8, 8, 11, 11, 13, 13, ?

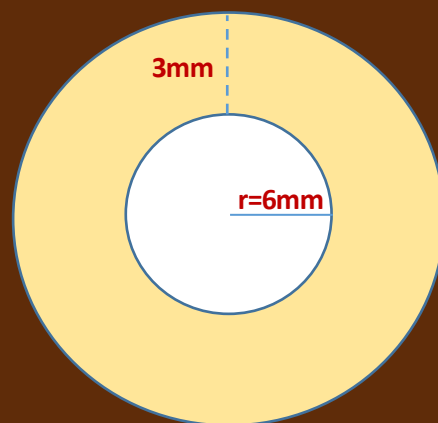
- a. 8
- b. 11
- c. 13
- d. 15

Q25. The volume of this cube is 125 cubic inches. What is the surface area of this cube?



- a. 125 square inches
- b. 135 square inches
- c. 150 square inches
- d. 155 square inches

Q26. Both circles have the same center. What is the area of the shaded region?



- a. 132.3 square millimeters
- b. 139.9 square millimeters
- c. 141.3 square millimeters
- d. 147.9 square millimeters

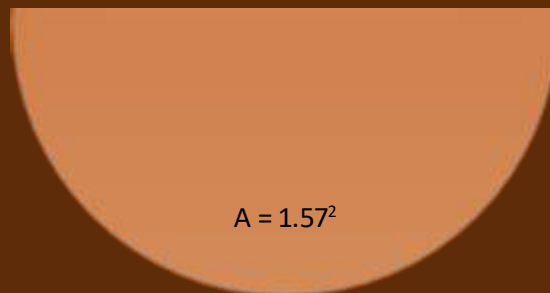
Q27. Andrew leaves home on a motorcycle. He rides 5 blocks west, 3 blocks north, 7 blocks south, and 5 blocks east. How many blocks is Andrew from his home?

- a. 2 blocks
- b. 3 blocks
- c. 4 blocks
- d. 20 blocks

Q28. Toby leaves work to deliver balloon bouquets. He travels 2 miles north, 3 miles west, and 3 miles east. How far and in which direction must Toby go to get back to his workplace?

- a. 3 miles North
- b. 2 miles South
- c. 3 miles South
- d. 2 miles North

Q29. The area of a semicircle is 1.57 square inches. What is the semicircle's perimeter?



- a. 5.14 square inches
- b. 5.74 square inches
- c. 6.14 square inches
- d. 6.74 square inches

Q30. The radius of a quarter circle is 3 kilometers. What is the quarter circle's perimeter?



- a. 6.69 km
- b. 9 km
- c. 10.71 km
- d. 12.33 km



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