



Spirit of Math

s c h o o l s

2006

Grade Four Mathematics Competition

Please observe the following instructions:

- 1) You have 45 minutes to write the competition.
- 2) The contest is multiple-choice with four choices for each question. Write the letter of the answer you choose on the line to the right of each question.
- 3) Each question answered correctly is worth one mark, and the sum of the correct answers is the score.
- 4) Marks are not taken off for wrong answers.
- 5) No calculators are allowed.


Student Name: _____

Day School Grade: _____

Score: / 30

- 1) The product of two numbers is 7. What is the larger number?
a) 1 b) 3 c) 4 d) 7

- 2) Sharon and Karen left for their trip to Ottawa at 10:30 am on Thursday. If the trip took two hours, what time and day was it when they arrived?
a) 4 pm, Friday b) 12:30 pm, Thursday
c) 12:30 am, Thursday d) 12:30 am, Friday

- 3) Pierre owned 15 model cars. Each car measured 10 centimetres in length. How long, in metres, would the display case need to be if all of the cars were lined up, end to end?

a) 1.5 m b) 10 m c) 15 m d) 25 m

- 4) Twenty six crows were sitting on a beam
All but 12 did not fly away,
Leaving only _____.
a) 10 b) 12 c) 14 d) 26

- 5) Quincy loves prime numbers! He decided to paint all of the prime numbers between 0 and 100 on his sidewalk. What is the 25th number he will write?
a) 25 b) 81 c) 89 d) 97

- 6) If you had 3 coins, a combination of quarters and dimes, which of the following amounts could you possibly have?
a) 20¢ b) 50¢ c) 60¢ d) 80¢

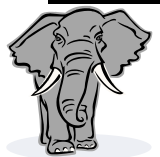
- 7) Mickey was reading "Of Mice and Men." He started reading at the top of page 45 and finished reading on the bottom of page 62. How many pages did Mickey read?
a) 17 b) 18 c) 23 d) 45

- 8) Chantal bought $4\frac{1}{2}$ metres of ribbon. She needed pieces that were $\frac{1}{2}$ metre in length. How many $\frac{1}{2}$ m pieces would she get from her ribbon?
a) 5 b) 7 c) 9 d) 11

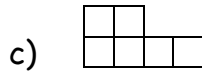
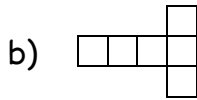
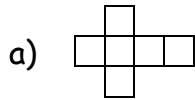
- 9) Fran's Flower Emporium was closing for the season. All of the flowers had either 3 petals or 5 petals left on them. If Fran counted 20 flowers and 70 petals, how many flowers had only 3 petals left?
a) 5 b) 8 c) 15 d) 20

- 10) $1^3 + 1^4 + 1^5 =$
a) 1 b) 3 c) 12 d) 13

- 11) Sam the Bengal Tiger is fed at twelve o'clock noon. George the Elephant eats 2 kg less than three times half the amount that Sam eats. If Sam eats 8 kg of food, how many kg does George eat?
a) 10 kg b) 22 kg c) 6 kg d) 12 kg



12) Which of the following will not fold to form a cube?



13) Which of the following is not true?

a) $-7 + \frac{1}{3} = -6\frac{2}{3}$

b) $\frac{2}{3}$ of 36 = 24

c) $\frac{1}{4} + \frac{1}{4} = \frac{1}{5}$

d) $\frac{5}{6} > \frac{2}{3}$


14) Isaac is thinking about a number between 130 and 170. His number is divisible by 3, 5 and 11. What is his number?

a) 112

b) 133

c) 155

d) 165

15)  My mom and dad's anniversary is May 10th. My sister's birthday is 3 days after 7 days after 6 days after 3 days before my parent's anniversary. When is my sister's birthday?

a) May 23

b) May 22

c) May 24

d) April 27

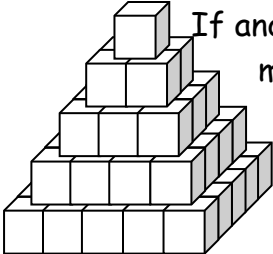
16) There were 25 children at Wacky Wendy's; 12 children were bouncing and 16 children were yelling and 8 children were bouncing and yelling. How many children were doing neither?

a) 20

b) 11

c) 8

d) 5

17)  If another layer was added to the bottom of this diagram, how many blocks would be needed for the new layer?

a) 30

b) 35

c) 36

d) 40

18) Santa's elves are painting house numbers on the bags of toys. On Elm Street, houses are numbered from 1 to 53. How many times will the elves paint the number 4?

a) 20

b) 15

c) 10

d) 5



19) What number will come next in this pattern? 910, 1112, 1314, 1516, 1718, _____

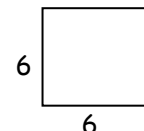
a) 1820

b) 1925

c) 1920

d) 2022

20) Jordan is laying tiles in his bedroom. His room is 6 meters by 6 meters. His tiles are 2 meters by 2 meters. How many tiles will he need?



a) 36

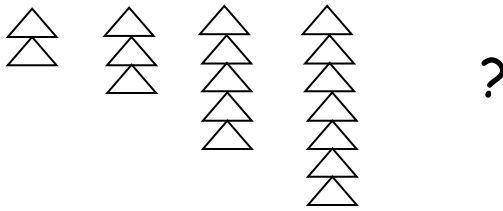
b) 12

c) 9

d) 4



21) How many triangles are needed to complete this pattern?



- a) 12 b) 11 c) 10 d) 9

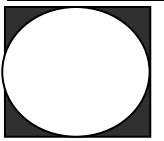
22) Jemi scored an average of 78% on her first three tests. What would she need to score on her fourth test to raise her average to 82%?

- a) 82% b) 86% c) 90% d) 94%

23) $5 \times 6 \times 7 \times 8 = 10 \times 21 \times \underline{\hspace{1cm}}$

- a) 10 b) 8 c) 6 d) 4

24) A square has a perimeter of 20 cm. What would be the radius of a circle that fits perfectly inside the square?



- a) 2.5 cm b) 5 cm c) 10 cm d) 20 cm

25) Billy is blowing up balloons for his birthday bash. If it takes Billy 45 seconds to blow up each balloon, how long will it take him to blow up 10 balloons?

- a) 4 min b) 4 min, 50 sec c) 6 min, 30 sec d) 7 min, 30 sec

26) The Count has a total of 75 starfish and crabs. If he doubles the number of starfish he has, he will have a total of 95 creatures. How many crabs does he have?

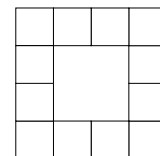
- a) 25 b) 55 c) 75 d) 80



27) What would be the fifth rational in this pattern? $\frac{2}{3}, \frac{4}{6}, \frac{8}{9}, 1\frac{1}{3}, \dots$

- a) $2\frac{2}{15}$ b) $2\frac{2}{3}$ c) 3 d) $3\frac{5}{9}$

28) How many squares are in this diagram?



- a) 12 b) 14 c) 18 d) 20

29) Joe's sock drawer is full of blue and green socks. Four fifths of the socks are green. There are 24 green socks. How many blue socks does Joe have?

- a) 5 b) 6 c) 24 d) 25

30) A hotdog, a cookie and a pop cost \$14. The hotdog costs twice as much as the cookie and the cookie costs twice as much as the pop. How much will you pay for 2 hotdogs?

- a) \$4 b) \$8 c) \$12 d) \$16

