

			Grade /							
So	coring: There is Each un	<i>no penalty</i> for an answered question	incorrect answer.	maximum of 10 ur	answered questions.					
Pa	rt A: Each co	rrect answer i	s worth 5.							
1.	The value of ($6 \times 2 - 3$ is								
	(A) 9	(B) −6	(C) 12	(D) 15	(E) 10					
2. The value of $1 + 0.01 + 0.0001$ is										
	(A) 1.0011	(B) 1.0110	(C) 1.1001	(D) 1.1010	(E) 1.0101					
3.	$\frac{1}{2} + \frac{1}{4} + \frac{1}{8}$ is e	equal to								
	(A) 1	(B) $\frac{1}{64}$	(C) $\frac{3}{14}$	(D) $\frac{7}{8}$	(E) $\frac{3}{8}$					
4.	A regular polygon has perimeter 108 cm and each side has length 12 cm. How many sides does this polygon have?									
	(A) 6	(B) 7	(C) 8	(D) 9	(E) 10					
5.	The smallest number in the set $\{3.2, 2.3, 3, 2.23, 3.22\}$ is									
	(A) 3.2	(B) 2.3	(C) 3	(D) 2.23	(E) 3.22					
6.	If PQ is a straight line, then the value of x is									
	(A) 36	(B) 72	(C) 18							
	(D) 20	(E) 45			$x^{\circ}x^{\circ}x^{\circ}$					
				P						
7.	Which of the following is a prime number?									
	(A) 20	(B) 21	(C) 23	(D) 25	(E) 27					
8.	Kayla went fo the day before did she walk o	r a walk every da e. If she walked 8 on Friday last we	ay last week. Eac 3 kilometres on M 2 eek?	ch day, she walke Ionday last week,	d half as far as she did , how many kilometres					

(A) 0.25 **(B)** 4 **(D)** 2 (E) 0.5

- 9. The circle graph shows the favourite ice cream flavours of those surveyed. What fraction of people surveyed selected either chocolate or strawberry as their favourite flavour of ice cream?
 - (A) $\frac{3}{5}$ (C) $\frac{2}{3}$ (B) $\frac{1}{3}$ (D) $\frac{3}{4}$ (E) $\frac{5}{8}$



10. Max sold glasses of lemonade for 25 cents each. He sold 41 glasses on Saturday and 53 glasses on Sunday. What were his total sales for these two days?

(A) \$23.50 **(B)** \$10.25 (C) \$13.25 (D) \$21.50 (E) \$24.25

(C) 1

Crada 7



11. Chris bought two hockey sticks at the same price. He also bought a helmet for \$25. If Chris spent \$68 in total, how much did one hockey stick cost?

8

- (A) \$9.00 (B) \$18.00 (C) \$21.50 (D) \$43.00 (E) \$41.50
- 12. In the chart, each number below the top row is the positive difference of the two numbers to the right and left in the row immediately above it. What is the value of x?
 - (A) 1 (B) 2 (C) 3
 - **(D)** 4 **(E)** 0
- 13. In the diagram, $\triangle PQR$ is isosceles. The value of x is (A) 40 (B) 70 (C) 60
 - **(D)** 30 **(E)** 110



- 14. Wesley is 15 and his sister Breenah is 7. The sum of their ages is 22. In how many years will the sum of their ages be double what it is now?
 - (A) 7 (B) 8 (C) 15 (D) 14 (E) 11
- 15. Using two transformations, the letter R is changed as shown: $R \rightarrow \exists \rightarrow B$. Using the same two transformations, the letter L is changed as shown: $L \rightarrow \neg \rightarrow \Gamma$. Using the same two transformations, the letter G is changed to
 - (A) G (B) Ə (C) Э (D) C (E) じ
- 16. In the diagram, each small square in the grid is the same size. What percent of the grid is shaded?
 - (A) 84 (B) 80 (C) 90
 - (D) 75 (E) 66

- 17. The length of a rectangle is 6 more than twice its width. If the perimeter of the rectangle is 120, what is its width?
 - (A) 8 (B) 18 (C) 27 (D) 38 (E) 22
- 18. Rishi got the following marks on four math tests: 71, 77, 80, and 87. He will write one more math test. Each test is worth the same amount and all marks are between 0 and 100. Which of the following is a possible average for his five math tests?
 - (A) 88 (B) 62 (C) 82 (D) 84 (E) 86

Grade 7 19. A 4×4 square grid can be entirely covered by three non-overlapping pieces made \square and from 1×1 squares. If the first two pieces are , the third piece is (A) (B) (C) (D) (E) 20. The product of three *different* positive integers is 72. What is the smallest possible sum of these integers? **(B)** 14 (C) 15 (D) 17 **(E)** 12 (A) 13

Part C: Each correct answer is worth 8.

21. Andrea has finished the third day of a six day canoe trip. If she has completed $\frac{3}{7}$ of the trip's total distance of 168 km, how many km per day must she average for the remainder of her trip?

(A) 29 (B) 24 (C) 27 (D) 32 (E) 26



23. There are 24 ways in which Beverly, Dianne, Ethan, and Jamaal can arrange themselves to sit in a row of four seats. In how many ways can Beverly, Dianne, Ethan, and Jamaal arrange themselves in a row of four seats so that Ethan *does not* sit beside Dianne?

(A) 18 (B) 12 (C) 21 (D) 6 (E) 15

- 24. A star is made by overlapping two identical equilateral triangles, as shown. The entire star has an area of 36. What is the area of the shaded region?
 - (A) 24 (B) 18 (C) 27
 - **(D)** 33 **(E)** 30



25. The sum of all the digits of the integers from 98 to 101 is

$$9 + 8 + 9 + 9 + 1 + 0 + 0 + 1 + 0 + 1 = 38$$

The sum of all of the digits of the integers from 1 to 2008 is

(A) 30 054 (B) 27 018 (C) 28 036 (D) 30 036 (E) 28 054