DEPARTMENT FOR CURRICULUM, RESEARCH, INNOVATION AND LIFELONG LEARNING Directorate for Learning and Assessment Programmes

Educational Assessment Unit

National Sports School Entrance Examination 2018

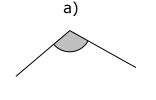
YEAR 8	MATHEMATICS Paper 1	TIME: 30 minutes
Name:		Index Number:

Directions

- This paper contains 20 multiple choice questions.
- Answer all the 20 questions.
- For all questions:
 - o Read each question carefully and underline the correct answer.
 - Only one of the answers provided is correct.
 - Calculators, protractors and other mathematical instruments are not allowed.
 - o Each question carries 1 mark.

- 1) Which of the following numbers is not prime?
 - a) 11
- b) 31
- c) 41
- d) 51
- e) 61

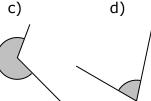
- 2) What is the value of $(-3) \times (8)$?
 - a) 24
- b) -24
- c) 11
- d) -11
- e) -32
- 3) Which of the following angles is closest to 60°?



b)



c)



e)



- 4) Which of the following is false?
- a) -3 < 0 b) $16 > 8 \div 2$ c) $12\% = \frac{3}{50}$ d) $2\frac{1}{4} = \frac{9}{4}$ e) $\frac{3}{7} = \frac{15}{35}$

- 5) The recurring decimal 0.2 is equivalent to:
 - a) $\frac{1}{5}$

- b) $\frac{2}{5}$ c) $\frac{1}{2}$ d) $\frac{2}{9}$ e) $\frac{5}{7}$
- 6) Which of the following is the Highest Common Factor (HCF) of 18 and 24?
 - a) 2
- b) 3
- c) 6
- d) 8
- e) 12
- 7) Which is the next term of the sequence? 10.95 , 10.7 , 10.45 , 10.2 , $__$
 - a) 9.45
- b) 9.7
- c) 9.85
- d) 9.95
- e) 10

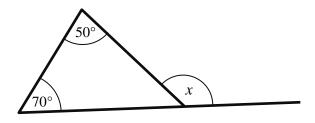
- 8) $3\frac{3}{5}$ expressed as a decimal is:
 - a) 3.35
- b) 3.53
- c) 3.6
- d) 3.3
- e) 33.5

9) Which of the following is equivalent to 3x - 2y + z?

a) 4x + y - x - y + z b) 3y + 2x - z + 2z - y - x c) 4y - 3z - 6y + 4z - 2y

d) 6z - 5z + 4y + 3x - 6y e) 3z - 2z + 4y - 2y + 3x

10) The angle marked *x* is equal to:



a) 20°

b) 60°

c) 110°

d) 120°

e) 130°

11) Ryan sat for five tests in which he scored the following marks: 28, 28, 29, 32 and 38. The median mark is:

a) 28

b) 29

c) 32

d) 41

e) 31

12) The answer to $2.05 + 3.6 \times 6$ is:

a) 33.9

b) 11.65

c) 44.28

d) 26

e) 23.65

13) Which of the following is the equation of the straight line graph that passes through the points (2, -4), (2, 0) and (2, 7)?

a) y = x + 2

b) y = 2 c) $y = \frac{x}{2}$ d) x = -2

e) x = 2

14) An orange coloured paint is obtained by mixing 500 ml of yellow with 200 ml of red. How much red must be mixed with 150 ml of yellow to get the same orange paint?

a) 60 ml

b) 80 ml

c) 300 ml

d) 375 ml

e) 600 ml

twice the	•	ne. One week the	hours per week. Ove worker was paid €33	•
a) 4	b) 6	c) 8 d)	40 e) 48	
16)				
All these the arrow		cm long and 9 mm	apart. The distance	e marked with
a) 23.7 cr	m b) 24.6 cn	n c) 20.5 cm	d) 2370 mm	e) 2.46 cm
	can of soft drink with the empty can is:	veighs 15 g. When	full it weighs 400 g	. The percentage
a) 3%	b) 15%	c) 4.15%	d) 3.75%	e) 4%
18) Which of	the following bottle	es of shampoo is th	ne least expensive p	er 100 ml?
a) 300 m	l at €2.25	b) 400 ml at €2.96	c) 450 ml	at €3.15
	d) 1 litre at €	C6.50 e) 2	2 litre at €12	
19) The surfa	ce area of a cube i	s 294 cm³. What is	the volume of the o	cube?
a) 49 cm ³	b) 343 cm ³	c) 2.94 cm ³	d) 98 cm ³	e) 7 cm ³
-	e is made up of thr ving is the perimete		s 4 cm², 9 cm² and	16 cm ² . Which of
a) 9 cm	b) 26 cm	c) 29 cm	d) 36 cm	e) 576 cm
-		End of Pape	r 1	