

Year 7 Mathematics Directed Numbers Practice Test 3

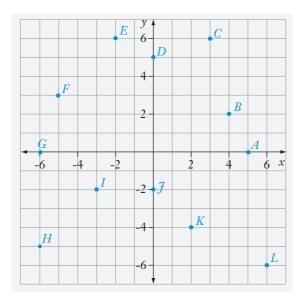
- 1 Graph the following groups of numbers on the number line, and use it to write the numbers in ascending order
- b) 2, 6, 7, 3 c) -3, -1, -2 a) 3, 4, 1 2 Insert > or < symbols to make the statements true b) -3 ____ -2 a) 5 ____ 3 c) -4 _____ 5 Find the answers to 3 b) $3 \times 3 - 2$ a) 5 - 3 + 44 Write the opposite of the following statements b) 4 hours before lunch a) 5 kg decrease in weight 5 State the combined effect of the following a) a deposit of \$20 followed by a withdrawal of \$25 b) a \$10 withdrawal followed by a \$12 withdrawal If north is the positive direction write a directed number for a journey 6 b) 7 km south followed by 3 km north a) 6 km south Write as a directed number the opposite of the following 7 a) -6 b) -3 c) 4 Find the answers to 8 a) decrease 2 by 5 b) increase -11 by 7 9 Simplify a) -3+5b) -3 – 5 c) -5+2d) 5-7 10 Simplify a) 3 - 5 - 2b) -3+6-4
- 11 Simplify
- a) 5+-2
 b) 3--6
 c) -3+-2
 d) -4--3
 e) -4-(-2)
 f) -3-(+5)

 12 Simplify
 - a) 3 (-2) + 5 b) 15 (-3) + (-5)

13	Simplify
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a)	-2 x 4	b)	3 x (-6)	c)	-3 x (-2)
14 Sim	plify				
a)	(-3) x 2 x (-4)	b)	$(-6)^2$	c)	-5 x (-2) ²
15 Sim	plify				
a)	36 ÷ (-9)	b)	-30 ÷ 6	c)	-50 ÷ (-10)

16 In the number plane below



- a) Find the coordinates of
- i) B ii) I iii) F
- b) Name the letters which have the following coordinates
- i) (-6, 0) ii) (-6, -5) iii) (6, -6)

ANSWERS

Question 1 Ascending order b) 2, 3, 6, 7 c) -3, -2, -1 a) 1, 3, 4 Question 2 Insert > or < symbols to make the statements true a) 5 > 3b) -3 < -2 c) -4 < 5 **Question 3** a) 6 b) 7 Question 4 b) 4 hours after lunch a) 5 kg increase in weight Question 5 State the combined effect of the following a) -\$5 b) \$22 Question 6 a) -6 km b) -4 km Question 7 a) 6 b) 3 c) -4 Question 8 b) -4 a) -3 **Question 9** a) 2 b) -8 c) -3 d) -2 Question 10 a) -4 b) -1 Question 11 9 c) -5 a) 3 b) d) -1 e) -2 f) -8 Question 12 a) 13 b) 13 Question 13 a) -8 b) -18 c) 6 Question 14 b) 36 c) -20 a) 24

Question 15

a) -4		b) -5	c) 5			
Question 16						
a) i)	B (4, 2)	ii) I (-3, -2)	iii) F (-5, 3)			
b) i)	G	ii) H	iii) L			