

MATHLETICS

Inspiring Better Results

Directed Numbers

Student Book - Series H-1

$$+5 \times -3 = \underline{\hspace{2cm}}$$



Mathletics
Instant
Workbooks



Directed numbers

Student Book - Series H

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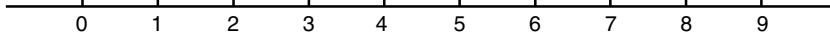
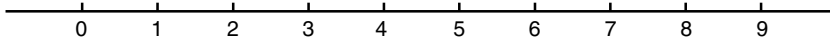

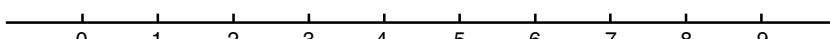
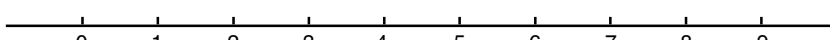


Author of The Topics and Topic Tests: AS Kalra

Directed numbers

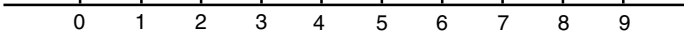
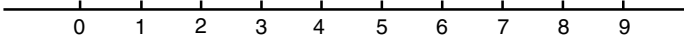
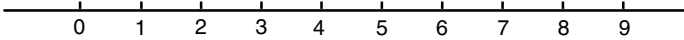
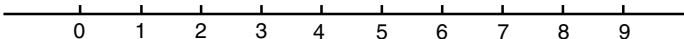
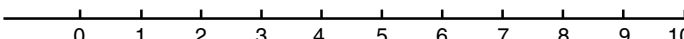
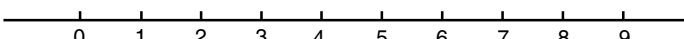
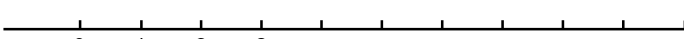
Directed numbers

Topic 1: Plotting on number lines

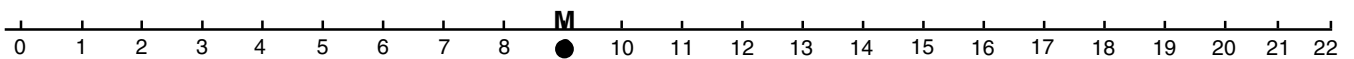
QUESTION 1 Plot the following sets of points on the number line.

a	{0, 2, 3, 5}	
b	{1, 3, 5, 7}	
c	{2, 4, 6, 8}	
d	{0, 3, 6, 9}	
e	{2, 3, 4, 5, 6}	
f	{1, 4, 5, 7, 8}	
g	{0, 1, 2, 3, 6}	

QUESTION 2 Graph each set on a separate number line.

a	the odd numbers less than 6	
b	the even numbers between 1 and 8	
c	the numbers from 1 to 5	
d	the numbers between and including 2 and 7	
e	the numbers 2, 4, 5, 6, 8, 10	
f	the numbers 1, 3, 5, 7, 9	
g	the numbers 0, 2, 4, 6, 8, 10	

QUESTION 3



Find the position of **M** if it moves

- a 3 places to the right _____
- b 5 places to the right _____
- c 10 places to the right _____
- d 7 places to the left _____
- e 8 places to the left _____

Directed numbers

Topic 2: Opposite directions — negative numbers

QUESTION 1 What is the opposite of each of the following statements?

- | | | | |
|--------------------------------|-------|------------------------------------|-------|
| a going up | _____ | b going east | _____ |
| c going north | _____ | d depositing money | _____ |
| e winning \$10 | _____ | f three floors up | _____ |
| g 5° below zero | _____ | h increase of \$30 | _____ |
| i 15 steps to the right | _____ | j 80 metres above sea level | _____ |

QUESTION 2 In each of the following statements, write a directed number to show the size and direction of the number.

- a** Michelle deposited \$30. _____
- b** John walked 10 km to the east. _____
- c** The price came down by \$12. _____
- d** Michael took 80 steps backwards. _____
- e** The water level dropped by 1 metre. _____
- f** I lost 15 points. _____

QUESTION 3 Showing distance and direction, state where you would be from your starting point if you travelled

- a** 8 km east then 3 km west _____
- b** 10 km west then 6 km east _____
- c** 3 km north then 5 km south _____
- d** 18 km east then 13 km west _____
- e** 6 km east, 8 km west and then 5 km east _____

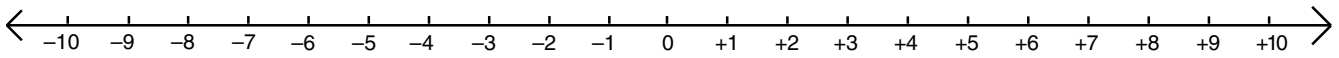
QUESTION 4 Write a number sentence for

- a** a deposit of \$10 and a deposit of \$5 _____
- b** a deposit of \$14 and a withdrawal of \$9 _____
- c** a withdrawal of \$12 and a deposit of \$20 _____
- d** a deposit of \$6 and a deposit of \$9 _____

Directed numbers

Topic 3: Extending the number line

Use the number line to answer the following questions.



QUESTION 1 Represent each of the following trips on the number line using a directed number (a positive or negative number).

- | | |
|------------------------|------------------------|
| a from 0 to +3 | b from +2 to +6 |
| c from -3 to +2 | d from +3 to +7 |
| e from -1 to +6 | f from -2 to -8 |

QUESTION 2 Circle the larger number.

- | | |
|-------------------|-------------------|
| a +8 or +5 | b -9 or -3 |
| c -3 or +3 | d +2 or -7 |
| e -2 or +6 | f +8 or -8 |

QUESTION 3 Use the number line to complete the following.

- | | | |
|---------------------------|---------------------------|---------------------------|
| a $3 - 7 =$ _____ | b $3 + 7 =$ _____ | c $5 + 2 =$ _____ |
| d $2 + 4 =$ _____ | e $8 - 5 =$ _____ | f $9 - 3 =$ _____ |
| g $-1 + 8 =$ _____ | h $6 - 3 =$ _____ | i $6 - 8 =$ _____ |
| j $5 - 9 =$ _____ | k $7 - 10 =$ _____ | l $-2 - 3 =$ _____ |

QUESTION 4 Arrange in ascending order.

- | | |
|---------------------------------|-------|
| a +1, +3, -2, -7, -1 | _____ |
| b -3, -9, -2, 3, 2, 8 | _____ |
| c 5, 3, 2, -1, -7, -3 | _____ |
| d 2, -1, 5, -4, 8, 9, -8 | _____ |

QUESTION 5 Put > or < to make true sentences.

- | | | |
|-------------------------|--------------------------|-------------------------|
| a 7 _____ -3 | b 5 _____ -7 | c 2 _____ -4 |
| d 4 _____ 8 | e -6 _____ 6 | f 3 _____ -5 |
| g -5 _____ 9 | h -3 _____ $+3$ | i 7 _____ 9 |
| j 8 _____ -2 | k -8 _____ $+2$ | l -6 _____ 7 |

Directed numbers

Topic 4: Addition of directed numbers

QUESTION 1 Find the sum of the following (use the number line if necessary).

a $+6 + +9 =$ _____ **b** $+2 + +3 =$ _____ **c** $+1 + +3 =$ _____

d $+5 + +1 =$ _____ **e** $+2 + +4 =$ _____ **f** $+1 + +7 =$ _____

g $+6 + +5 =$ _____ **h** $+2 + +8 =$ _____ **i** $+1 + +10 =$ _____

QUESTION 2 Find each sum.

a $+3 + -6 =$ _____ **b** $+2 + -6 =$ _____ **c** $+1 + -5 =$ _____

d $+1 + -4 =$ _____ **e** $+2 + -7 =$ _____ **f** $+3 + -8 =$ _____

g $+1 + -7 =$ _____ **h** $+2 + -11 =$ _____ **i** $+2 + -9 =$ _____

QUESTION 3 Add the following.

a $-7 + +3 =$ _____ **b** $-8 + +2 =$ _____ **c** $-9 + +3 =$ _____

d $-6 + +1 =$ _____ **e** $-7 + +2 =$ _____ **f** $-8 + +3 =$ _____

g $-10 + +3 =$ _____ **h** $-12 + +4 =$ _____ **i** $-18 + +6 =$ _____

QUESTION 4 Find the answers to these additions.

a $-2 + -1 =$ _____ **b** $-2 + -3 =$ _____ **c** $-2 + -4 =$ _____

d $-4 + -5 =$ _____ **e** $-4 + -9 =$ _____ **f** $-4 + -12 =$ _____

g $-3 + -3 =$ _____ **h** $-5 + -5 =$ _____ **i** $-8 + -8 =$ _____

QUESTION 5 Find the values of the following.

a $+7 + +2 + +3 =$ _____ **b** $+19 + -3 =$ _____ **c** $+15 + -8 =$ _____

d $-16 + +9 =$ _____ **e** $-8 + -4 =$ _____ **f** $-10 + -5 =$ _____

g $+5 + -3 + -2 =$ _____ **h** $-12 + +2 + +5 =$ _____ **i** $-8 + +3 =$ _____

QUESTION 6 Find the missing number.

a $+4 +$ _____ $= +1$ **b** _____ $+ -7 = 0$ **c** $-2 + -3 =$ _____

d $+5 +$ _____ $= +7$ **e** $+3 + -8 =$ _____ **f** $-2 +$ _____ $= -8$

g $-3 +$ _____ $= -12$ **h** $+8 + +3 =$ _____ **i** $+9 + -6 =$ _____

Directed numbers

Topic 5: Subtraction of directed numbers

QUESTION 1 Find the answers for the following questions.

a $6 - 3 =$ _____

b $8 - 5 =$ _____

c $9 - 2 =$ _____

d $+7 - +5 =$ _____

e $+9 - +3 =$ _____

f $+7 - +5 =$ _____

g $+3 - (+2) =$ _____

h $+15 - +8 =$ _____

i $+10 - +7 =$ _____

QUESTION 2 Complete these subtractions (use the number line if necessary).

a $+5 - -2 =$ _____

b $+8 - -3 =$ _____

c $9 - (-4) =$ _____

d $+6 - -3 =$ _____

e $+7 - -4 =$ _____

f $+10 - -5 =$ _____

g $+8 - -4 =$ _____

h $+4 - -2 =$ _____

i $+9 - -6 =$ _____

QUESTION 3 Find each difference.

a $-17 - +3 =$ _____

b $-8 - +2 =$ _____

c $-10 - +4 =$ _____

d $-15 - +3 =$ _____

e $-6 - +4 =$ _____

f $-9 - +5 =$ _____

g $-10 - +5 =$ _____

h $-12 - +8 =$ _____

i $-7 - +4 =$ _____

QUESTION 4 Find the answers for the following subtractions.

a $-4 - -3 =$ _____

b $-5 - -3 =$ _____

c $-5 - -2 =$ _____

d $-6 - -2 =$ _____

e $-7 - -6 =$ _____

f $-8 - -3 =$ _____

g $-8 - -4 =$ _____

h $-6 - -4 =$ _____

i $-10 - -5 =$ _____

QUESTION 5 Find the values of the following.

a $-8 - -8 =$ _____

b $+20 - +10 =$ _____

c $+15 - -3 =$ _____

d $-17 - +8 =$ _____

e $-23 - -23 =$ _____

f $-15 - -12 =$ _____

g $-7 - -7 =$ _____

h $-16 - +3 =$ _____

i $-19 - +5 =$ _____

QUESTION 6 Simplify the following.

a $8 - 12 =$ _____

b $-5 + 2 =$ _____

c $-5 - 7 =$ _____

d $8 - (-6) =$ _____

e $-5 - (-9) =$ _____

f $-5 - (+5) =$ _____

g $-9 - 9 =$ _____

h $-7 - 10 =$ _____

i $6 - 15 =$ _____

Directed numbers

Topic 6: Multiplication of directed numbers

QUESTION 1 Multiply the following.

- a $+3 \times +2 =$ _____ b $+1 \times +6 =$ _____ c $+7 \times +3 =$ _____
d $+4 \times +9 =$ _____ e $+7 \times +6 =$ _____ f $+3 \times +8 =$ _____
g $+1 \times +9 =$ _____ h $+1 \times +15 =$ _____ i $+11 \times +2 =$ _____

QUESTION 2 Work out the following.

- a $+3 \times -2 =$ _____ b $+5 \times -3 =$ _____ c $+4 \times -9 =$ _____
d $+4 \times -8 =$ _____ e $+7 \times -4 =$ _____ f $+5 \times -7 =$ _____
g $+6 \times -3 =$ _____ h $+3 \times -7 =$ _____ i $+8 \times -9 =$ _____

QUESTION 3 Find the answers to the following.

- a $-3 \times +4 =$ _____ b $-4 \times +2 =$ _____ c $-5 \times +11 =$ _____
d $-5 \times +6 =$ _____ e $-6 \times +4 =$ _____ f $-7 \times +2 =$ _____
g $-3 \times +11 =$ _____ h $-3 \times +8 =$ _____ i $-4 \times +6 =$ _____

QUESTION 4 Simplify.

- a $-3 \times -4 =$ _____ b $-4 \times -12 =$ _____ c $-8 \times -9 =$ _____
d $-2 \times -5 =$ _____ e $-3 \times -5 =$ _____ f $-5 \times -1 =$ _____
g $-6 \times -7 =$ _____ h $-4 \times -8 =$ _____ i $-6 \times -8 =$ _____

QUESTION 5 Find each product.

- a $+3 \times +9 =$ _____ b $-5 \times +8 =$ _____ c $-6 \times +1 =$ _____
d $+7 \times -3 =$ _____ e $-8 \times -7 =$ _____ f $+7 \times -6 =$ _____
g $-5 \times -12 =$ _____ h $+3 \times +12 =$ _____ i $+10 \times +9 =$ _____

QUESTION 6 Complete the following tables.

a

X	+9	-10	-5
+7			
-6			

b

X	-8	-7	-3
+6			
-5			

c

X	+6	-12	-9
-7			
+8			

Directed numbers

Topic 7: Division of directed numbers

QUESTION 1 Divide the following.

a $+20 \div +4 =$ _____ b $+24 \div +6 =$ _____ c $+36 \div +9 =$ _____
d $+81 \div +9 =$ _____ e $+49 \div +7 =$ _____ f $+24 \div +3 =$ _____
g $+24 \div +8 =$ _____ h $+20 \div +5 =$ _____ i $+56 \div +8 =$ _____

QUESTION 2 Work out the following divisions.

a $+12 \div -2 =$ _____ b $+9 \div -3 =$ _____ c $+15 \div -5 =$ _____
d $+15 \div -3 =$ _____ e $+18 \div -2 =$ _____ f $+12 \div -3 =$ _____
g $+18 \div -9 =$ _____ h $+12 \div -1 =$ _____ i $+21 \div -3 =$ _____

QUESTION 3 Simplify the following.

a $-36 \div +4 =$ _____ b $-24 \div +6 =$ _____ c $-36 \div +12 =$ _____
d $-27 \div +9 =$ _____ e $-27 \div +27 =$ _____ f $-5 \div +5 =$ _____
g $-24 \div +8 =$ _____ h $-36 \div +3 =$ _____ i $-27 \div +3 =$ _____

QUESTION 4 If $a = -4$, $b = 2$, $c = 4$ and $d = -8$, find the value of the following.

a $a \div b =$ _____ b $c^2 \div d =$ _____ c $ac \div d =$ _____
d $c \div d =$ _____ e $a^2 \div b^2 =$ _____ f $c^2 \div b^2 =$ _____
g $a^2 \div b =$ _____ h $d \div ab =$ _____ i $d \div c =$ _____

QUESTION 5 Fill in the missing number.

a $-40 \div$ _____ $= -10$ b $-121 \div +11 =$ _____ c $-9 \div +3 =$ _____
d _____ $\div -9 = +4$ e $+49 \div -7 =$ _____ f _____ $\div -3 = -9$
g $-64 \div -8 =$ _____ h $+63 \div +9 =$ _____ i $-21 \div +7 =$ _____

QUESTION 6 Simplify the following.

a $-45 \div -9 =$ _____ b $-60 \div +3 =$ _____ c $-20 \div +10 =$ _____
d $+35 \div -5 =$ _____ e $+120 \div -12 =$ _____ f $-60 \div +20 =$ _____
g $+52 \div +13 =$ _____ h $-33 \div -11 =$ _____ i $-80 \div -4 =$ _____

Directed numbers

Topic 8: The four operations with directed numbers

QUESTION 1 Find answers to the following.

a $-7 + -8 =$ _____ b $+9 + +3 =$ _____ c $+11 + +23 =$ _____
d $-9 - +3 =$ _____ e $-16 - +4 =$ _____ f $-36 - +8 =$ _____
g $-7 - -3 =$ _____ h $-9 - -5 =$ _____ i $-19 - -18 =$ _____

QUESTION 2 Find the value of the following.

a $-18 \div +3 =$ _____ b $-24 \div -12 =$ _____ c $+34 \div -2 =$ _____
d $-5 - -10 =$ _____ e $-6 + -13 =$ _____ f $8 - (-6) =$ _____
g $+19 + -3 =$ _____ h $+8 + -2 =$ _____ i $+16 + -5 =$ _____

QUESTION 3 Work out the following.

a $-30 \div -5 =$ _____ b $+63 \div -9 =$ _____ c $-68 \div -4 =$ _____
d $-16 \times -6 =$ _____ e $-64 \div +8 =$ _____ f $-88 \div -11 =$ _____
g $+8 \times -3 =$ _____ h $-81 \div +9 =$ _____ i $-36 \div -6 =$ _____

QUESTION 4 Simplify the following.

a $(+3 \times +4) \times +2 =$ _____ b $+9 - +4 \times -4 =$ _____ c $-200 \div -100 \times 2 =$ _____
d $(-5 - 2) \times -3 =$ _____ e $-60 \div -10 \times 3 =$ _____ f $-3 + -7 + -9 =$ _____
g $12 \div (+2 \times -2) =$ _____ h $(-5 - 5) \times -2 =$ _____ i $8 \div (-4 + 8) =$ _____

QUESTION 5 Fill in the missing number.

a $+54 \div -6 =$ _____ b _____ $\div 3 = -12$ c $+12 -$ _____ $= +15$
d $+3 \times -7 =$ _____ e _____ $\div +7 = -7$ f $-8 -$ _____ $= -6$
g $+8 \times -3 =$ _____ h $+8 \times -3 =$ _____ i $+6 \times$ _____ $= -54$

QUESTION 6 Complete the following tables.

a

+	+4	-6	-8	+10	-3
-2					
+7					
-5					

b

×	-3	+4	-2	+6	-5
+3					
-7					
-4					

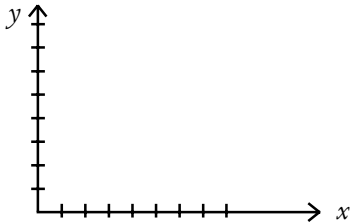
Directed numbers

Topic 9: Graphing a table of values

QUESTION 1 Complete each table using the given rule and then plot the ordered pairs on a number plane.

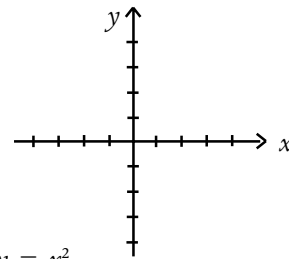
a $y = x + 3$

x	0	1	2	3
y				



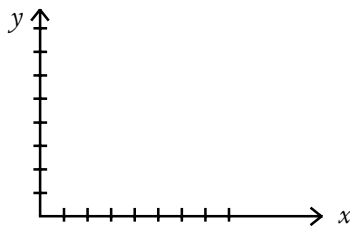
b $y = 2x - 2$

x	0	1	2	3
y				



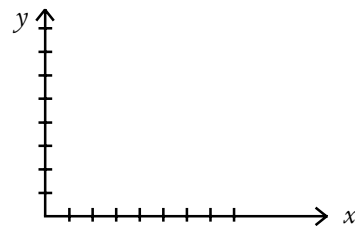
c $y = 2x$

x	0	1	2	3
y				

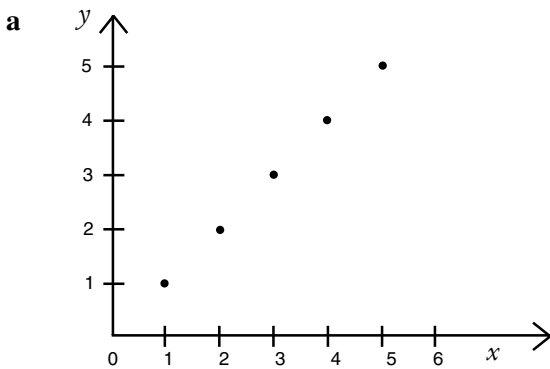


d $y = x^2$

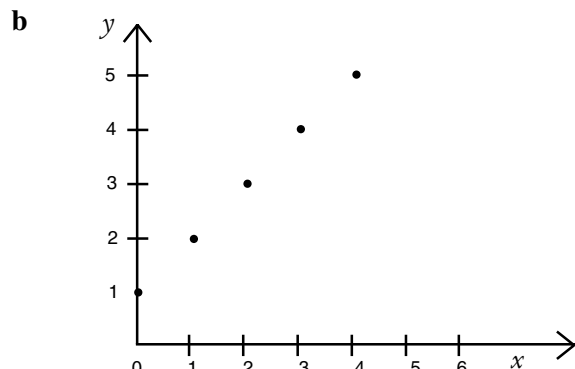
x	0	1	2	3
y				



QUESTION 2 Complete the table of values for each graph.



x					
y					



x					
y					

QUESTION 3 Complete the table of values for the following rules.

a $y = 3x + 4$

x	1	4	6	7	9
y					

b $n = 2m + 6$

m	0	1	2	3	4
n					

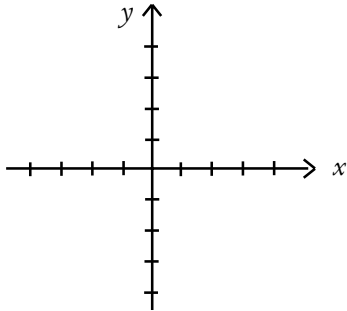
Directed numbers

Topic 10: Table of values and the number plane

QUESTION 1 Complete each table of values and then plot each set of ordered pairs on a number plane.

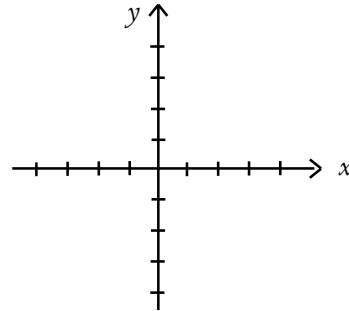
a $y = x$

x	-2	-1	0	1	2
y					



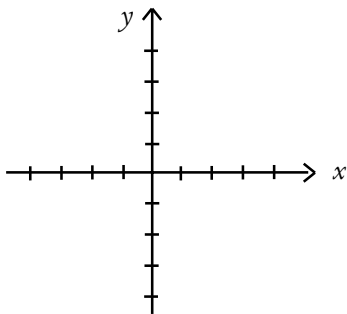
b $y = -x$

x	-2	-1	0	1	2
y					



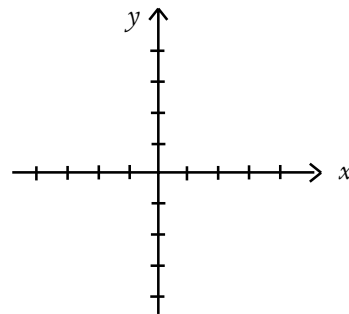
c $y = x + 1$

x	-2	-1	0	1	2
y					



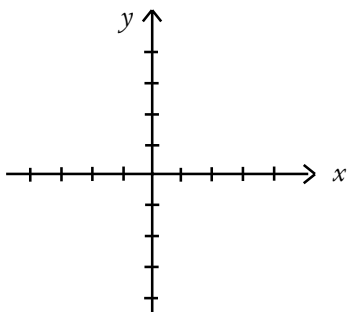
d $y = x - 1$

x	-2	-1	0	1	2
y					



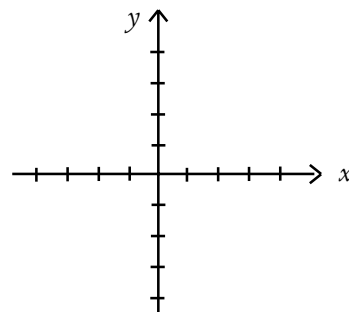
c $y = \frac{x}{2}$

x	-4	-2	0	2	4
y					



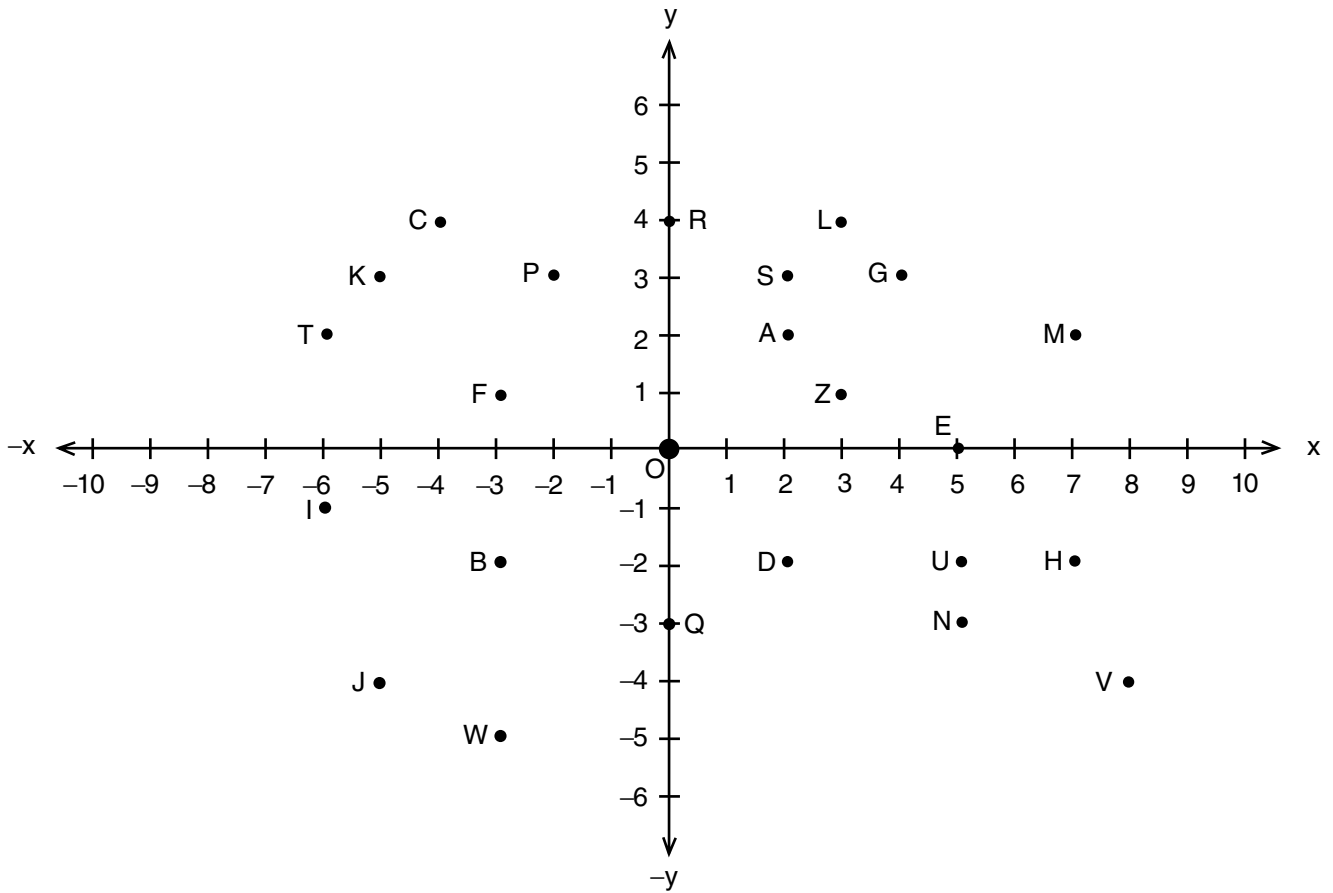
d $y = 2x$

x	-2	-1	0	1	2
y					



Directed numbers

Topic 11: The number plane



QUESTION 1 Write down the coordinates of the following points shown in the above number plane.

- | | | | | | | | |
|---|---------|---|---------|---|---------|---|---------|
| a | A _____ | b | B _____ | c | C _____ | d | D _____ |
| e | E _____ | f | F _____ | g | G _____ | h | H _____ |
| i | I _____ | j | J _____ | k | K _____ | l | L _____ |
| m | M _____ | n | N _____ | o | O _____ | p | P _____ |
| q | Q _____ | r | R _____ | s | S _____ | t | T _____ |
| u | U _____ | v | V _____ | w | W _____ | x | Z _____ |

QUESTION 2 Write down the letter used to name each of the following points.

- | | | | | | | | |
|---|----------------|---|----------------|---|----------------|---|---------------|
| a | (5, -2) _____ | b | (0, -3) _____ | c | (-3, 1) _____ | d | (5, 0) _____ |
| e | (2, 2) _____ | f | (-3, -2) _____ | g | (3, 4) _____ | h | (0, 4) _____ |
| i | (-5, -4) _____ | j | (0, 0) _____ | k | (-6, -1) _____ | l | (2, -2) _____ |
| m | (-6, 2) _____ | n | (4, 3) _____ | o | (7, 2) _____ | p | (5, -3) _____ |
| q | (-5, 3) _____ | r | (-2, 3) _____ | s | (-4, 4) _____ | t | (2, 3) _____ |
| u | (-3, -5) _____ | v | (7, -2) _____ | w | (8, -4) _____ | x | (3, 1) _____ |

Directed numbers

Topic 12: Problem solving with directed numbers

- 1** Where would I be after a trip of 3 km south followed by a trip of 5 km north?

- 2** What will be the net result of a deposit of \$500 in my account followed by a withdrawal of \$700?

- 3** Two numbers have a product of 30 and their sum is -11 . What are the numbers?

- 4** If the sum of two numbers is -1 and their product is -6 , find the numbers.

- 5** I am a negative number divisible by 5 and greater than -7 . What am I?

- 6** Find the sum of a profit of \$8000 and a loss of \$13 000.

- 7** The temperature fell 3 degrees during the day and fell another 6 degrees during the night. What was the total change in temperature?

- 8** What is the combined effect of a gain in weight of 4 kg and then a loss of 6 kg.

- 9** Start with an integer, 3, subtract 9 from it and multiply the result by -2 . What is the answer?

- 10** If 2 more than -5 is added to the product of 3 and 7, what is the result?

- 11** Multiply 5 and -3 and then add 6 to this result. What is the final answer?

- 12** Divide -30 by -3 and then multiply this result by -2 . What is the answer?

- 13** Which of the integers, -8 , -6 , -2 , 3, 9, is closest to zero on the number line?

- 14** From the integers, -6 , -3 , -1 , 2, 8, find the three integers whose sum is -2 .

- 15** Find the two numbers whose sum is -7 and product is 12.

Directed numbers

Unit Test

PART A

Instructions This part consists of 12 multiple-choice questions
Each question is worth 1 mark
Fill in only ONE CIRCLE for each question
Calculators are NOT allowed

Time allowed: 15 minutes

Total marks = 12

				Marks	
1	$-32 + +18$ equals				
	(A) -12	(B) $+50$	(C) -14	(D) -50	1
2	$-6 + -3 + -1$ equals				
	(A) -8	(B) -10	(C) $+10$	(D) $+8$	1
3	$+5 - -6$ equals				
	(A) $+11$	(B) -11	(C) $+1$	(D) -1	1
4	$(-2)^3$ equals				
	(A) 8	(B) -6	(C) $+6$	(D) -8	1
5	$-9 - -9$ equals				
	(A) 18	(B) 0	(C) 1	(D) 81	1
6	$(-6 \times 4) + 8$ equals				
	(A) -16	(B) $+16$	(C) 32	(D) 18	1
7	$-5 - (6 - -1)$ equals				
	(A) -10	(B) 12	(C) -12	(D) 0	1
8	$-8 + -2 \times -3$ equals				
	(A) 14	(B) -14	(C) 2	(D) -2	1
9	If $a = 3$ and $b = -2$ then $(a + b)^2$ equals				
	(A) 25	(B) 1	(C) 9	(D) 4	1
10	If $x = 2$ and $y = -5$ then $xy + 6$ equals				
	(A) -4	(B) 16	(C) 4	(D) -16	1
11	$-6 \times -5 \div -2$ equals				
	(A) 15	(B) 30	(C) -15	(D) -30	1
12	$+36 \div +4 \div -3$ equals				
	(A) 3	(B) -3	(C) 12	(D) -12	1

Total marks achieved for PART A

12

Directed numbers

Unit Test

PART B

Instructions This part consists of 15 questions
Each question is worth 1 mark
Write answers in the answers-only column

Time allowed: 20 minutes

Total marks = 15

Questions	Answers only	Marks
1 $-5 + 7 - 8 =$	_____	<input type="text" value="1"/>
2 $(-8)^2 + 3 - 1 =$	_____	<input type="text" value="1"/>
3 $-7 + -9 =$	_____	<input type="text" value="1"/>
4 $-9 \times +7 =$	_____	<input type="text" value="1"/>
5 $(-6)^2 + (-1)^2 + 9 =$	_____	<input type="text" value="1"/>
6 $-3 \times -5 =$	_____	<input type="text" value="1"/>
7 $-2 \times -3 \times -4 =$	_____	<input type="text" value="1"/>
8 $-16 \div 8 =$	_____	<input type="text" value="1"/>
9 $-35 \div -7 =$	_____	<input type="text" value="1"/>
10 $60 \div -6 =$	_____	<input type="text" value="1"/>
11 $-7 + 8 \div (-2) =$	_____	<input type="text" value="1"/>
12 $(4 - 17) \times (-1 + 3) =$	_____	<input type="text" value="1"/>
13 $8 + (-3) + 3 - 8 =$	_____	<input type="text" value="1"/>
14 $-4 + (-4) - 4 =$	_____	<input type="text" value="1"/>
15 $-2 \times [-27 \div (3 - 12)] =$	_____	<input type="text" value="1"/>

Total marks achieved for PART B