Year 7 Numeracy (Non-calculator) Practice Test 8

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1   Solve the following equation.

1.2 + 2.3 + 3.4 =_____

6.9	5.9	7.8	6.8
Ⓐ	Ⓑ	Ⓒ	Ⓓ

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2   Multiply the following numbers.

3 x 0.2 = _____

3.6	0.06	6	0.6
Ⓐ	Ⓑ	Ⓒ	Ⓓ

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3   Which one of the following numbers is the biggest?

$\dfrac{2}{5}$	$\dfrac{7}{20}$	$\dfrac{1}{3}$	$\dfrac{3}{10}$
Ⓐ	Ⓑ	Ⓒ	Ⓓ

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4   Michelle bought a book and a pen. The price of the book was $100.00 while the price of the pen was ten-times less than the price of the book.
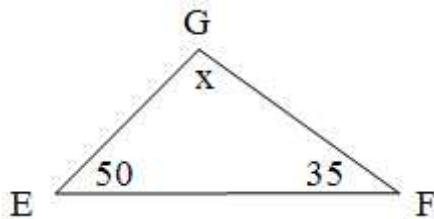
What is the price of the pen?

$10	$35	$90	$110
Ⓐ	Ⓑ	Ⓒ	Ⓓ

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5   Here is a triangle with two angles given:

E = 50 degrees, and, F = 35 degrees. What is the value of x?

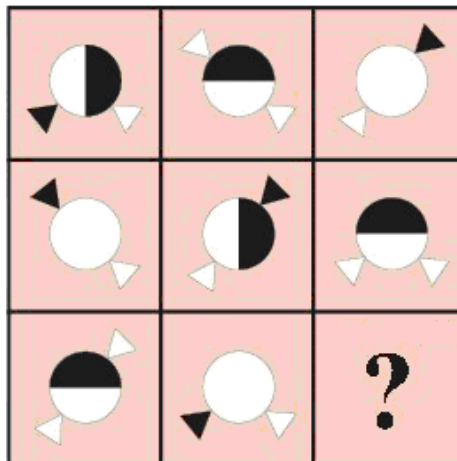| 75 degrees	80 degrees	95 degrees	90 degrees
Ⓐ	Ⓑ	Ⓒ	Ⓓ

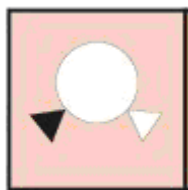6   Here is a triangle inside a rectangle.
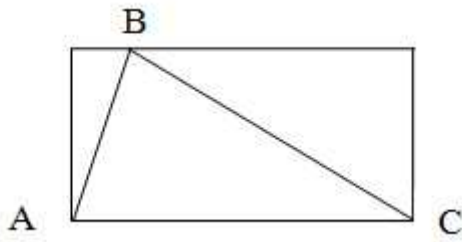
The area of the triangle is X of the area of rectangle. What is the value of X?
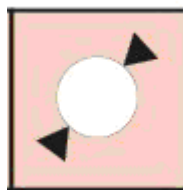
Ⓐ Half
Ⓑ Quarter
Ⓒ One third
Ⓓ Two thirds

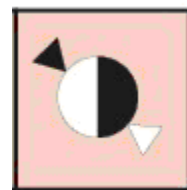7   Anglia is making a pattern.

Which of these comes next?

Ⓐ   Ⓑ   Ⓒ   Ⓓ

8	One million seconds equals to _____ days.			
	6 ⓐ	3 ⓑ	12 ⓒ	24 ⓓ

9	Julia has X dollars. She gives 12% of X dollars to Sarah which is equal to $240. What is the value of X?			
	$2000 ⓐ	$2400 ⓑ	$200 ⓒ	$1200 ⓓ

10   Here is a rectangular region. What percentage of the region is grey?

50% ⓐ	$\dfrac{4}{10}$ % ⓑ	40% ⓒ	60% ⓓ
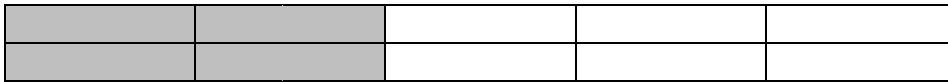
11   A squash tournament has 52 entrants. A player is eliminated whenever he/she loses a match.

How many matches will be played in the entire tournament?

51 ⓐ	50 ⓑ	48 ⓒ	42 ⓓ

12   A water tank has a capacity of 39 litres. There is 13 litres of water present in the tank. If the water level is doubled then X part of the tank is filled with water. What is the value of X?
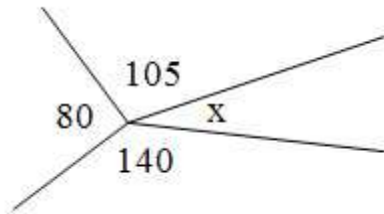
$\dfrac{3}{8}$ ⓐ	$\dfrac{1}{2}$ ⓑ	$\dfrac{1}{4}$ ⓒ	$\dfrac{2}{3}$ ⓓ

13 Find the value of x.

20	30	40	35
Ⓐ	Ⓑ	Ⓒ	Ⓓ

14 If $\dfrac{1}{x} = 2 + \dfrac{3}{4}$

What is the value of x?

$\dfrac{11}{4}$	3	$\dfrac{3}{4}$	$\dfrac{4}{11}$
Ⓐ	Ⓑ	Ⓒ	Ⓓ

15 Here is a triangle with two interior and one exterior angle given.
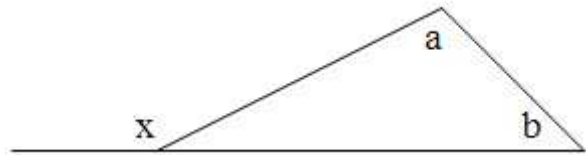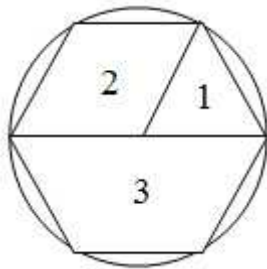

Which one of the following gives the value of x?

x = 90 − (a+b)	x = a+b	x = 180 − (a+b)	x = 360 − (a+b)
Ⓐ	Ⓑ	Ⓒ	Ⓓ

| 16 | A figure shows a regular hexagon inside a circle of radius 6 cm. It is made up of three shapes: 1, 2 and 3. If the perimeter of the hexagon is 36 cm, what is the perimeter of shape 3? |

| 30 cm | 40 cm | 26 cm | 36 cm |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

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17 How many degrees does the small hand of a clock move between 1 PM and 6 PM on a same day?

| 150 | 180 | 90 | 100 |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

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18 A ten dollar note is approximately 15.5cm long. If 1000 ten dollar notes are placed end to end, how much length will they occupy?

| 1.55km | 15.5m | 0.155km | 15.5km |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

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19 A container has 5 litres of juice. Two litres of juice is taken out of the container and replaced by same amount of water and mixed thoroughly. Again, 2 litres of the mixture is removed and replaced by same amount of water. What is the percentage of water in the final mixture?

| 30 | 33 | 27 | 36 |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

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20 If there are 3 roads connecting towns X and Y, and 5 roads connecting towns Y and Z. How many different routes can be taken from town X to town Z?

| 12 | 15 | 18 | 8 |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

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21 The point (-4, 11) lies in which quadrant?

| First | Second | Third | Fourth |
| Ⓐ | Ⓑ | Ⓒ | Ⓓ |

22

Here is a magic square.

		12
9		13
	x	8

The sum of numbers in any row, column or diagonal is same. What is the value of x?

14	12	15	13
Ⓐ	Ⓑ	Ⓒ	Ⓓ

23

What is the sum of 100 + 99 + 98 +….. + 3 + 2 + 1?

5100	5050	5000	5150
Ⓐ	Ⓑ	Ⓒ	Ⓓ

24

Here is a pattern of numbers. Find the value of x.

2, 5, 9, x, 20, 27, 35

10	12	13	14
Ⓐ	Ⓑ	Ⓒ	Ⓓ

25

Here is a series of fractions.

$$\frac{4}{5}, \frac{39}{50}, \frac{19}{25}, \ X, \ \frac{18}{25}$$

What is the value of X?

$\frac{2}{5}$	$\frac{37}{50}$	$\frac{79}{100}$	1724
Ⓐ	Ⓑ	Ⓒ	Ⓓ

26

Solve the following equation.

27 - (9 ÷ 3) = _____

24	22	21	23
Ⓐ	Ⓑ	Ⓒ	Ⓓ

27 Robert is twice as old as Mike. While Mike is twice as old as Anna. The sum of their ages is 70. What is the age of Robert?
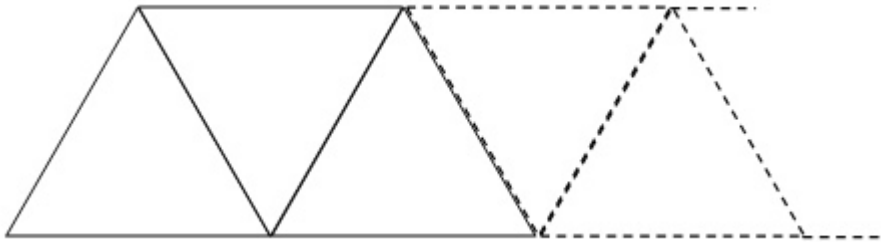
45
Ⓐ

40
Ⓑ

35
Ⓒ

50
Ⓓ

28 The following figure shows equilateral triangles. If each side of an equilateral triangle is 1 cm long, find the perimeter of the figure formed by placing 20 such triangles in a row.
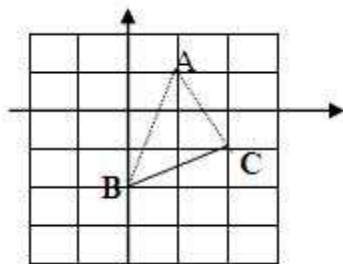

22
Ⓐ

20
Ⓑ

23
Ⓒ

21
Ⓓ

29 In the following figure each block is 1 cm^2. Find the distance between point A and B.

3.50cm
Ⓐ

3.16cm
Ⓑ

3.55cm
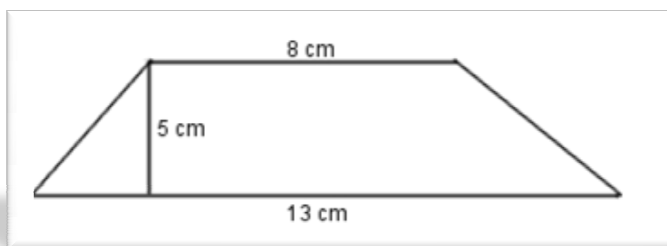Ⓒ

3.00cm
Ⓓ

| 30 | Here is an expression:

78 – 3 x 4 + 6

Which of the following shows the correct placement of brackets to get 48 as an answer?

Ⓐ 78 – 3 x (4 + 6)
Ⓑ 78 – (3 x 4) + 6
Ⓒ (78 – 3) x 4 + 6
Ⓓ 78 – 3 x 4 + 6 |
|---|---|

| 31 | Solve the following.

10^6 X 10^4 X 10 = ☐ |
|---|---|

| 32 | Here is a trapezoid.

What is the area of this trapezoid?

45.9 cm²   52.5 cm²   53.5 cm²   59.1 cm²
Ⓐ   Ⓑ   Ⓒ   Ⓓ |
|---|---|

| 33 | When x is divided by 9 the quotient is 26 and the remainder is 5. Find the value of x?

1170   139   239   61
Ⓐ   Ⓑ   Ⓒ   Ⓓ |
|---|---|

| 34 | On Friday, I went to bed at 9:40 PM then I got up next morning at 6:53 AM. How much time did I spend in bed?

8.13 Hours   10.13 Hours   9.13 Hours   7.13 Hours
Ⓐ   Ⓑ   Ⓒ   Ⓓ |
|---|---|

Answers:

1.	A	16.	A	31.	10^{11}	
2.	D	17.	A	32.	B	
3.	A	18.	C	33.	C	
4.	A	19.	D	34.	C	
5.	C	20.	B			
6.	A	21.	B			
7.	D	22.	C			
8.	C	23.	B			
9.	A	24.	D			
10.	C	25.	B			
11.	A	26.	A			
12.	D	27.	B			
13.	D	28.	A			
14.	D	29.	B			
15.	B	30.	A			