YEAR 7 END TERM 1 REVISION 1

100 marks from 100 questions

Question 1

Select the negative number.

a. ○82

b. ○−82

Question 2

Which of these temperatures is below freezing at sea level?

a. ○ 20 °C

b. ○ −20 °C

c. ○ 0 °C

Question 3

Numbers less than zero are called:

a. ○neutral numbers

b. ○negative numbers

Question 4

Negative five is written:

a. ○−5

b. ○5−

Question 5

Which direction do you move along the number line when you add a negative number?

a. Right

b. Left

Question 6

Which of these is a positive number?

a. ○−8

b. ○0

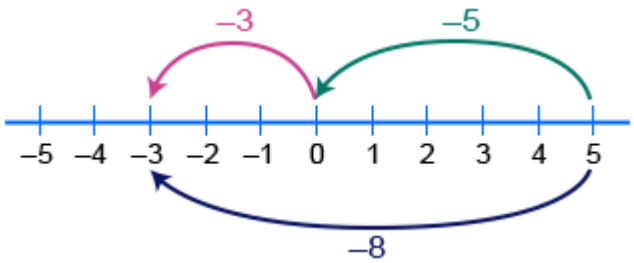
c. ○17

Question 7

What number is 7 less than 0?

(Use the hyphen - for a negative sign. No space.)

Question 8



Which question does this number line show the answer to?

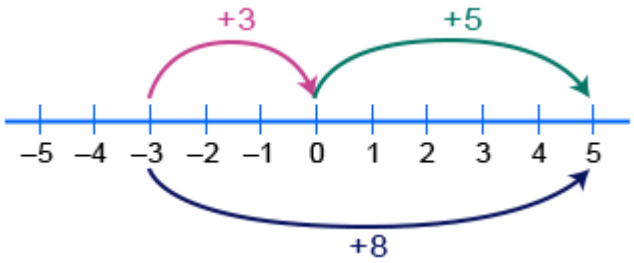
a. −3 + 5

b. 5 − −3

c. 5 + - 8

d. 5 + −3

Question 9



Which question does this number line show the answer to?

a. $-3 + 5$

b. $-3 + 8$

c. $-3 - 5$

d. $5 + -3$

Question 10

$+4 \times (-11) =$ ☐

Question 11

$-3 \times (+6) =$ ☐

Question 12

$+10 \times (-7) =$ ☐

Question 13

$-5 \times (+3) =$ ☐

Question 14

Evaluate:

$-20 \div (+5) =$ ☐

Question 15

What would be shown in the display if the following buttons were pressed on a calculator?

Question 16

Complete the calculation:

$-6 \div 3 =$ ☐

Question 17

Evaluate:

$(-8) \div 4 =$ ☐

Question 18

The answer to $6 \times -3 \div 2$ will be:

a. ○ positive

b. ○ negative

Question 19

Enter the next number that is divisible by 8.

8, 16, 24, 32, ☐

Question 20

Which of these numbers is NOT divisible by 4?

a. ○ 20

b. ○ 28

c. ○ 30

d. ○ 36

Question 21

Enter the next ***common multiple*** of 4 and 6.

12, 24, 36, 48, 60, ☐

Question 22

What is the 20th number that is divisible by 8?

☐

Question 23

To find the 20th multiple of 8, multiply 8 by ☐.

Question 24

Nine is divisible by 3. a. True

b. False

Question 25

To find multiples of a number: a. multiply it by any counting number

b. divide it by a whole number

Question 26

True or false?

24 is divisible by 6.

a. ○ True

b. ○ False

Question 27

True or false?

24 is divisible by both 8 and 10.

a. ○ True

b. ○ False

Question 28

12, 2, 6 and 4 are all:

a. ○ divisible by 2

b. ○ divisible by 4

Question 29

Write the factors of 21 in ascending order.

1, [ ], 7, [ ]

Question 30

A factor is a whole number that: a. can be divided by 2 with no remainder

b. is found by multiplying two other whole numbers together

c. divides exactly into another number

Question 31

10 is divisible by 3. a. True

b. False

Question 32

Factors of 12: 1, 12, 2, 6, 3, 4

Factors of 18: 1, 18, 2, 9, 3, 6

Enter a number to complete the *common factors* of 12 and 18.

1, 2, 3 and ____

Question 33

The first step for finding the highest common factor of two or more numbers is to list all the:

a. factors of each number

b. multiples of each number

c. common factors of each number

d. common multiples of each number

Question 34

Factors of 5: 1 , 5

Factors of 20: 1 , 2, 4, 5 , 10, 20

Factors of 25: 1 , 5 , 25

The highest common factor of 5, 20 and 25 is: a. 1

b. 5

c. 10

d. 20

Question 35

The highest common factor of two or more numbers is:

a. the largest fraction that divides exactly into them

b. the smallest whole number that divides exactly into them

c. the largest whole number that divides exactly into them

d. the smallest multiple that divides exactly into them

Question 36

The last two digits of a number are 16.

Which of these is the number divisible by?

a. 3

b. 4

c. 5

d. 6

Question 37

A number is divisible by 3.

Which of these statements must be true?

a. the sum of the digits is 9

b. the last digit is 0

c. the sum of the digits is a multiple of 3

d. the number is also divisible by 2

Question 38

A number is divisible by 5.

Which of these statements must be true?

a. the sum of the digits is a multiple of 3

b. the last digit is 0 or 5

c. the last two digits are a multiple of 4

d. the number is also divisible by 2

Question 39

A number has a last digit of 0.

Which of these numbers will it always be divisible by?

a. ☐ 2

b. ☐ 5

c. ☐ 7

d. ☐ 10

Question 40

What is the value of 5^2?

$5^2 =$ [ ]

Question 41

Evaluate $\sqrt{100}$. $\sqrt{100} =$ [ ]

Question 42

Square root is the opposite operation to:

a. doubling

b. squaring

c. multiplying

d. dividing

Question 43

What is the square root of 36? $\sqrt{36} =$ [ ]

Question 44

Which of these is the symbol for a square root?

a. $\sqrt{}$

b. $\approx$

Question 45

The square root of 81 is usually written in mathematical symbols.

Which one is correct?

a. 81^2

b. $\sqrt{81}$

c. $81 \div 2$

Question 46

$9 \times 9 = 81$

Therefore,

$\sqrt{81} =$ [ ]

Question 47

What is the fourth square number?

4th square number = [ ]

Question 48

Evaluate $\sqrt[3]{8}$.

$\sqrt[3]{8} =$ [ ]

Question 49

At 3 p.m. the temperature was -1 °C.

By 8 pm it had *fallen* 8 °C.

What was the temperature at 8 p.m.?

°C

Question 50

What number is 8 more than -2?

Question 51

At 10 am the temperature was -4 °C.

At 2 pm the temperature was 7 °C.

What was the rise in temperature?

°C

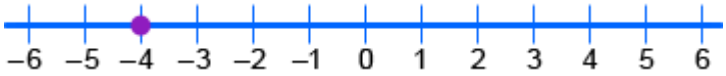
Question 52

What number is 4 *less* than -1?

Question 53

What number is 2 *more* than -5?

Question 54

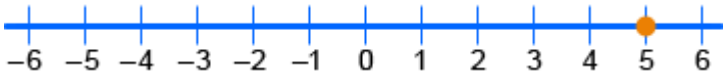


Adding 4 is the same as moving 4 spaces to the *right* on the number line.

Use the number line to answer this addition.

$-4 + 4 =$ ☐

Question 55



Subtracting 7 is the same as moving 7 spaces to the *left* on the number line.

Use the number line to answer this subtraction.

$5 - 7 =$ ☐

Question 56

Integers are always:

a. ○positive

b. ○negative

c. ○whole numbers

Question 57

Select the correct statement.

a. ○$-3 < 2$

b. ○$-3 > 2$

Question 58

$7 \times (-2) =$ ☐

Question 59

What is $6 \times (-8)$?

a. ○ -2

b. ○ -48

c. ○ 48

d. ○ -68

Question 60

Enter the missing number:

$8 \times$ ☐ $= -64$

Question 61

True or false?

$+90 \div (+9) = +10$ is the same as $90 \div 9 = 10$

a. True b. False

Question 62

Evaluate:

$+42 \div (+7) =$ ☐

Question 63

Which number would be shown in the display if the following buttons were pressed on a calculator?

☐

Question 64

$(-30) \div (+10) =$ ☐

Question 65

$(-4) \times 3 \div 6 =$ ☐

Question 66

True or false?

11 is divisible by 11.

a. True

b. False

Question 67

What is the lowest common multiple of 5 and 6?

☐

Question 68

What is the *lowest* common multiple of 10 and 20?

☐

Question 69

Number	Multiples
12	12, 24, 36, 48, 60, 72, ...
16	16, 32, 48, 64, 80, 96, ...

LCM of 12 and 16 = ☐

Question 70

In ascending order list the first 5 multiples of 12. 12, ☐, ☐, ☐, ☐

Question 71

What is the 5th multiple of 8? ☐

Question 72

Find the tenth multiple of 50. [ ]

Question 73

Even numbers are divisible by 2.

This statement is:

a. true all the time

b. true only some of the time

c. false all the time

Question 74

True or false?

5 is divisible by 15.

a. True

b. False

Question 75

Number	Factors
10	1, 2, 5, 10
17	1, 17

What is the common factor of 10 and 17?

[ ]

Question 76

Number	Factors
15	1, 3, 5, 15
33	1, 3, 11, 33

The common factors of 15 and 33 are 1 and [ ].

Question 77

Select the pair of numbers that are both divisible by 5.

a. ○ 20 and 42

b. ○ 97 and 103

c. ○ 85 and 230

Question 78

What is the largest factor of 36? [ ]

Question 79

How many factors does 25 have? [ ]

Question 80

What is the second largest factor of 34? [ ]

Question 81

A number divisible by 5 will end with which digit?

Select all correct answers.

a.☐0

b.☐2

c.☐5

d.☐8

Question 82

Use your calculator to find 43^2.

$43^2 =$ [ ]

Question 83

$\sqrt{81} - \sqrt{49} =$ ☐

Question 84

True or false?

169 is a square number.

a. ○ True

b. ○ False

Question 85

$\sqrt{81} + \sqrt{64} =$ ☐

Question 86

$\sqrt{100} - \sqrt{64} =$ ☐

Question 87

$(\sqrt{25})^2 =$ ☐

Question 88

What is the difference between the 11th square number and the 15th square number?

Difference = ☐

Question 89

Find the value of 2^3.

$2^3 =$ ☐

Question 90

The cube root of 1000 is $\square$.

Question 91

Find the value of $10 + -2$. $\square$

Question 92

Evaluate $-5 - -2$. $-5 - -2 =$ $\square$

Question 93

Evaluate $20 + -7$. $20 + -7 =$ $\square$

Question 94

Which calculation is shown on this number line?

a. $100 + 800 = 810$ b. $800 + -100 = 700$ c. $800 - -100 = 700$ d. $-800 + -100 = -710$

Question 95

$10 - 6 = 4$ means 'the number that is 6 less than 10 is 4'.

Write the answer to this subtraction.

$-10 - 6 =$ $\square$

Question 96

$5 + 8 = 13$ means 'the number that is 8 more than 5 is 13'.

Write the answer to this addition.

$-5 + 8 =$ $\square$

Question 97

$20 - 7 = 13$ means 'the number that is 7 less than 20 is 13'.

Complete this subtraction

$7 - \square = -9$

Question 98

$12 - 3 = 9$ means 'the number that is 3 less than 12 is 9'.

Write the answer to this subtraction.

$3 - 12 = \square$

Question 99

Enter the missing number:

$\square \times 8 = -72$

Question 100

Enter the missing number:

$\square \times 8 \times 8 = -128$