

**GRADE 9 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 1**

**QUESTION 1**

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression  $2x^2 + 3x - 5$  is \_\_\_\_\_ (3)

- A 5
- B -5
- C 3
- D -3

1.2 How many terms are in the expression  $3x^2 + 2x - 5$ ? \_\_\_\_\_ (3)

- A 1
- B 2
- C 3
- D 4

1.3 Determine the following two terms in the sequence: \_\_\_\_\_ (3)

- A 48; 56
- B -48; -56
- C -48; 56
- D 48; -56

1.4 Prime numbers that lie between 8 and 23: \_\_\_\_\_ (3)

- A 11, 13, 17, 19, 23
- B 11, 13, 17, 19
- C 11, 13, 17, 19, 23
- D 11, 13, 17, 19

1.5  $\sqrt{324}$  is \_\_\_\_\_ (3)

- A 30
- B 74
- C 18
- D 180

1.6 If  $x = 2$ , the value of  $3x^2 + 4x$  would be: \_\_\_\_\_ (3)

- A 10
- B 12
- C 14
- D 16

6 x 1 = 6

**QUESTION 2: WHOLE NUMBERS & INTEGERS**

2.1 Write 345:15 in it's simplest form. \_\_\_\_\_ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? \_\_\_\_\_ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. \_\_\_\_\_ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. \_\_\_\_\_ (4)

2.5 Calculate the following:

- 2.5.1  $3 \times 10^3 + 4 \times 10^3$  \_\_\_\_\_ (3)
  - 2.5.2  $3 \times 10^3 + 4 \times 10^3$  \_\_\_\_\_ (3)
- [16]

**QUESTION 3: EXPONENTS**

3.1  $5^2 \times \sqrt{5} + 5^2$  \_\_\_\_\_ (2)

3.2  $5^2 \times 5^3$  \_\_\_\_\_ (2)

3.3  $\frac{5^2}{5^3}$  \_\_\_\_\_ (3)

3.4  $\sqrt{5^2 \times 5^3}$  \_\_\_\_\_ (3)

[10]

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
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web introduction fin fan cooler is a kind of heat exchanger that uses the air for cooling medium it is required a wide surface area for heat transfer it is applied to finned tube for increasing the heat transfer surface and compact design of construction area and the process fluid can be cooled by the natural air it is not required a coolant

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web our large fan field erected units are available in bay sizes up to 70 feet by 54 feet and fan diameters up to 36 feet our modular design and construction expertise allows for fast and dependable field erection benefits of the large fan design include air cooled heat exchanger air heat exchanger heat exchanger

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web the air cooler bank essentially consists of finned tube bundles fan rings axial fans with suitable drive units and a supporting structure it can be equipped individually with maintenance platforms louvers and other equipment as requested by the customer

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web disposal to get more out of what you have without the need for brand new air coolers this fan is located below the process bundle and air is forced through the fin tubes induced draft fan is located above the process bundle and air is

induced or pulled with the data sheet paper and pen in hand head out and do a detailed visual