Kafarroman Second Intermediate

Math Quiz

Name: Class: 7(B-C)

Date:

Teacher: Zeinab Kassem Duration: 50min

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1) Calculate the following powers: (1point)

a) 1^{35} = …… c) 3^2 = ……

b) 49^0 =……. d) 2^4 =…….

1) Answer by true or false and correct the false statements: (2 pts)

a) $(2 + 5)^3 = 2^3 + 5^3$.

b) $1700 = 17 \times 10^4$.

c) $a^3 = 3\times$ a.

d) $2 + 3 \times 2^2 = 20$.

2) Write in the form of powers of 10: (3pts)

a) 100,000 = ……

b) $(10^4)^2$=…….. d) $(10^2)^3 \times (10^7)^2$=……..

c) $10^5 \times 10^2$=…… e) $(10^5 \times 10^6)^3$=……..

3) Write in the form of one power: **(show your work)** (4pts)

a) $4^3 \times (2^5)^4 = 2^{\cdots\cdots}$

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b) $\frac{3^7 \times 27^2}{2^{13}} =$

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c) $(2^2)^4 \times 5^8 \div 10^5$=

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d) $100 \times 2^2 \times 25 = 10^{\cdots\cdots}$

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4) Write the missing number: (3pts)

a) $2^{\cdots\cdots} \times 2^7 \times 2 = 2^{10}$ b) $\left(7^3\right)^{\cdots\cdots} = 7^0$ c) $\left(\frac{2}{3}\right)^6 \times \left(\frac{2}{3}\right)^{\cdots\cdots} = (\frac{2}{3})^{18}$ d) $500 \times 10^{\cdots\cdots} = 5 \times 10^5$

e) $\left(\frac{2}{7^3}\right)^5 = \frac{2^{\cdots\cdots}}{7^{\cdots\cdots}}$ f) $\left(\frac{7}{13}\right)^{\cdots\cdots} = \frac{\cdots\cdots}{13^5}$ g) $\left[(\cdots\cdots)^3\right]^{\cdots\cdots} = 13^{12}$ h) $2^6 \times 3^4 = (2^{\cdots\cdots} \times 3^2)$

i) 7.243× = 72430.

5) Calculate: (2points)

a) $(21 - 2^2 \times 5)^4 + (2 \text{ x } 3 - 6)^{10} =$

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c) $(10 \div 5) \text{ x } 3^2 + 3 \text{ x } 2^2 + (9 - 7)^3 =$

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