

Revision Homework 2

All of the questions below are to be completed without a calculator.

If you need to do any working, please do so on some paper.

1. By rounding the numbers, estimate the answer to the following:

a) 8.2×11.86

b) $398 \div 19.98$

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2. A train left London at 0900 with 512 passengers on board. There is enough space on the train for 739 passengers. The return train left at 1815 with 149 empty seats. How many more passengers were on the return train.

3. Calculate the following:

a) $4 \times 4 \times 4 \times 4 =$

b) $2^{10} =$

c) $\sqrt{100} =$

d) $\sqrt[3]{125} =$

4. Calculate the following:

a) 0.5×0.09

b) 120×0.03

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5. Write the following in index (power form). **DO NOT EVALUATE:**

a) $3 \times 3 \times 3 \times 3$

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b) $8 \times 8 \times 9 \times 8 \times 8 \times 9$

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6. Using the symbols $<$ or $>$, decide which would make the following statement true:

a. 12 -7

b. -30 -31

7. The temperature in Australia is 26°C . The temperature in Russia is 41°C colder than Australia. Canada is 12°C warmer than Russia. What is the temperature in Canada?

_____ $^{\circ}\text{C}$

8. A can of Fanta and 2 packets of crisps together costs £3.40.
3 cans of Fanta and 2 packets of crisps together costs £6.60.
How much would five cans of Fanta and 5 packets of crisps cost?

9. Calculate the following:

a) $3 + (-2)$

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b) $(-8) + (-2)$

=

c) $(-12) + 6$

=

d) $9 - (-4)$

=

e) $(-16) - (-9)$

=

f) $30 + (-8) - (-5)$

=

g) $8 \times (-6)$

=

h) $(-9) \times (-7)$

=

i) $(-10) \times 4$

=

j) $5 \times (-5) \times (-10)$

=

k) $81 \div (-9)$

=

l) $(-72) \div (-8)$

=

$$\text{m) } (-20) \div 5$$

$$=$$

$$\text{n) } 100 \div (-2) \div 5$$

$$=$$