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| Name: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date: *\_\_\_\_\_\_\_\_\_\_\_* |
| pact jpg1 | **Mathematics Essential**  **Test 1, 2015**  **Topics - Numbers** | | 55  = % |
| **Total Time:** | ***60*** *minutes* |  | |
| **Total Reading:** | *5**minutes* |
| **Total Working:** | *55**minutes* |
| **Weighting:** | *5% of the year.* |
| **Equipment Allowed:** | *Calculator* |
| ***You must include all working out to receive full marks*** | | | |
| **CALCULATOR ASSUMED** | | | |

1. **(2 marks:1, 1)**

Calculate the value of each expression.

1. 12 + 6 x 3 **b)** 6 x (4² - 1 x 4)
2. **(2 marks:1, 1)**

Find the value of the following, to 2dp

1. 5.07 x 12.53 **b)** (3.43 x 6.21)²
2. **(4 marks: 1, 1,1, 1)**
3. John runs 12 km in a 47 km journey. How much further does he have to go?
4. What number is 26 more than 1099?
5. Sue has 3 children. She gives each child a weekly allowance of $7.50. How much does she give as allowance in total?
6. A high school has 256 students. School fees are $54 per student. If all students pay the full fee how much will the school receive?
7. **(4 marks:2, 2)**
8. Terry earns $24.30 an hour. He would normally work a 35 hour week. How much does Terry earn each week?
9. Terry receives time-and-a-half for every hour he works over the 35 hours. If he works 37 hours one week how much does he earn?
10. **(2 marks: 1, 1)**

Answer the following questions by estimating. Do not use a calculator.

1. $7.99 x 6 **b)** 10.7m x 12m
2. **(4 marks: 1, 1, 1, 1)**

Express the following to 2 decimal places.

1. 127.673 **b)** 75.2355

Round the following to 1 decimal place.

**c)** 7.41 + 6.25 – 3.4 **d)** 47.64 ÷ 2.7 x 3.12

1. **(10 marks: 2, 2, 2, 2, 2)**

Plastic bags come in packs of 500.

1. Seth buys 20 packs of bags. How many bags did he purchase?
2. He needs 4500 bags to package his current orders. How many packs of bags will he need?
3. What are the first 4 multiples of 500?
4. How are the multiples of 500 related to the number of packs Seth needs for his current orders?
5. If Seth needed 1230 bags how many packs would he need to order?
6. **(6 marks: 2, 2, 2)**

Curtain fabric is priced at $27.50 per metre.

1. How much would 6 metres of fabric cost?
2. How much would 15.5 metres cost?
3. You purchased the entire roll and it cost you $687.50. How many metres were on the roll?
4. **(6 marks: 2, 1, 1, 2)**
5. Convert 3.25 years into years and months.
6. What does the 37 in 5.37 metres represent?
7. What does the 26 in $421.26 represent?
8. How many months are there in 26.25 years?
9. **(10 marks: 2, 2, 2, 2, 2)**
10. Sam paid $79500 for his work vehicle. He allows one quarter of the purchase price for depreciation each year. How much does Sam’s work vehicle depreciate each year?
11. Each week Sam spends $95 on fuel. How much does he pay each year for fuel?
12. Sam pays $350 insurance for his vehicle every quarter. How much insurance does he pay each year?
13. Every year he must replace the tyres on his work vehicle. Each tyre retails for $64.90. How much do tyres cost Sam each year?
14. If Sam is able to claim all of the above expenses on his tax how much can he claim over a one year period?
15. **(5 marks)**

A catering company charges $21.50 per person for finger food and $10.50 per person for drinks.

1. In total how much would it cost Tanya if she had 48 guests at her party?
2. Mary used the same company and she paid $1920. How many people attended her party?