

Level 1 Test – Knowledge

Name

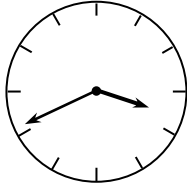
60 minutes Non-calculator Scribbling paper allowed

Put marks or ticks in the right column. Multiply total by 1.41 (round up) to get a score /48

Score: /34 × 1.41 = /48

| Number | | |
|--------|----------------------------------------------------------------------------------|----|
| Q1 | Write Four hundred and twenty billion, fifty nine thousand and six as a numeral. | /1 |
| Q2 | List the first 4 multiples of 8. | /1 |
| Q3 | Write the meaning of 26%. | /1 |
| Q4 | Circle the odd one out: $1\frac{4}{5}$ $\frac{7}{5}$ 1.4 140% | /1 |
| Q5 | On a number line, what number is half way between -1 and 5? | /1 |
| Q6 | Approximate $82.948 - 27.0964$ by rounding to the leading digit. | /1 |
| Q7 | Calculate 5^4 . | /1 |
| Q8 | What is $\sqrt{100}$? | /1 |
| Q9 | What is $8 - 3\frac{2}{3}$? | /1 |
| Q10 | Find $12.4 + (8 - 1 \div \frac{1}{2}) \times 3$ | /1 |

| Algebra | | | | | | | | | | | | | | | | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|-----|-----|-----|---|---|------|---|----|----|-----|-----|-----|----|
| Q11 | Use this relation <table border="1" style="margin-left: 20px;"> <tr> <td>Age of Bob's pig</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>Mass</td> <td>2</td> <td>49</td> <td>90</td> <td>112</td> <td>121</td> <td>123</td> </tr> </table> <p>to find the age at which the pig weighed 112 kg.</p> | Age of Bob's pig | 0 | 1 | 2 | 3 | 4 | 5 | Mass | 2 | 49 | 90 | 112 | 121 | 123 | /1 |
| Age of Bob's pig | 0 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | |
| Mass | 2 | 49 | 90 | 112 | 121 | 123 | | | | | | | | | | |
| Q12 | Which is the dependent variable in the relation above? | /1 | | | | | | | | | | | | | | |
| Q13 | Can the relation above be expressed as a formula? | /1 | | | | | | | | | | | | | | |
| Q14 | If $\text{membership fee} = \$12 + \text{number of kids} \times \10 , find the fee for a family with 7 kids. | /1 | | | | | | | | | | | | | | |
| Q15 | If $\text{power} = \text{height} \times 20 - 12$, find the height if the power is 62. Show working. | /1 | | | | | | | | | | | | | | |

| Measurement | | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|
| Q16 | Estimate the mass of a USB flash stick using an appropriate unit. | /1 |
| Q17 | What is the time on this clock to the nearest minute?  | /1 |
| Q18 | How many days in January, February and March 2024? | /1 |
| Q19 | Write 0.02 kg in grams. | /1 |

| Probability | | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Q26 | What is probability? | /1 |
| Q27 | Steve Tossed a bent coin 60 times and got 36 heads and 24 tails. Find: (a) the probability of getting tails (b) the number of tails he would expect to get if he tossed it a total of 100 times. | /2 |