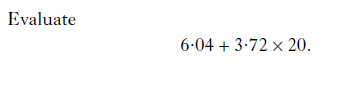
**N5 Lifeskills Mathematics**

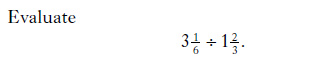
**Practice Exam 4**

**Non Calculator**



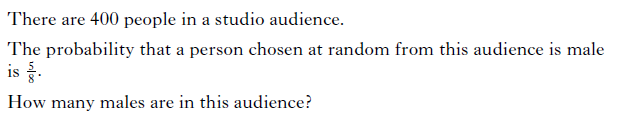
1.

2



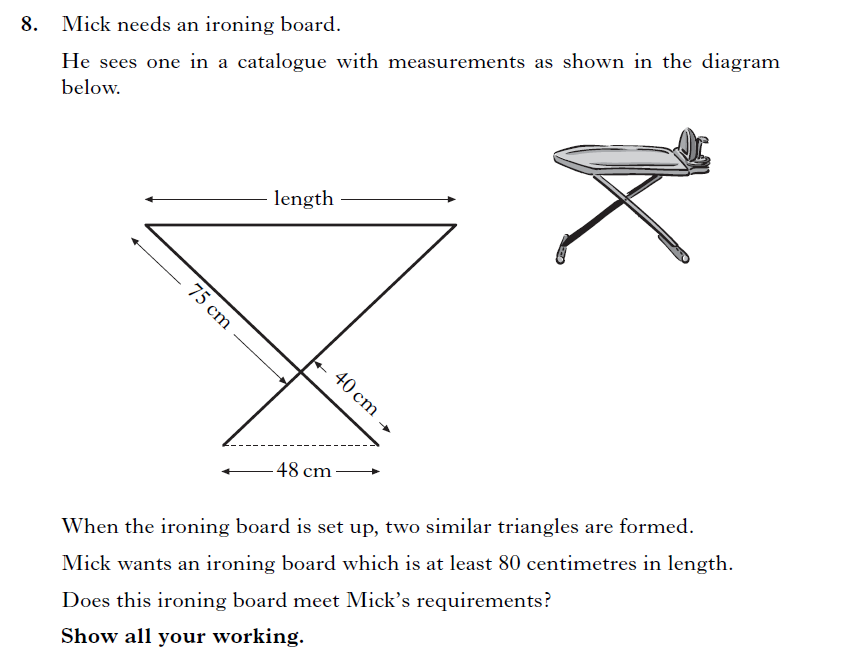
2.

2



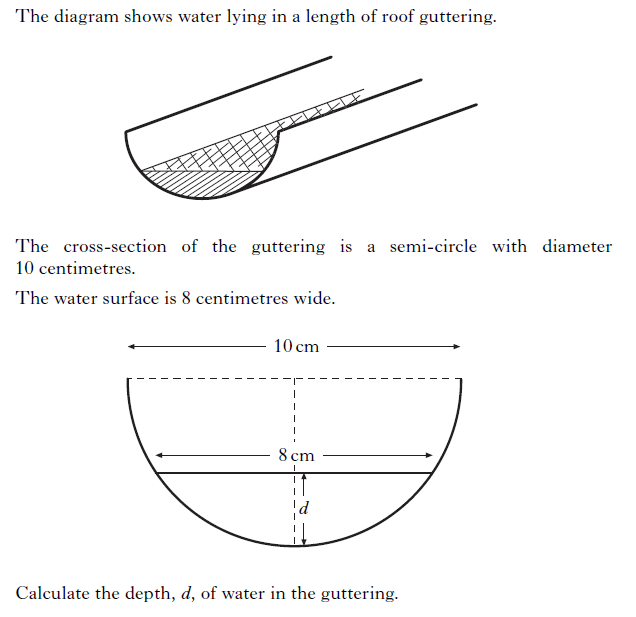
3.

2



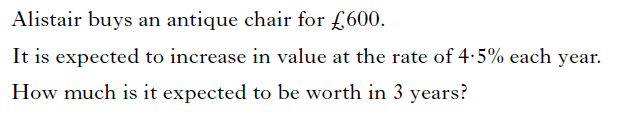
4.

3



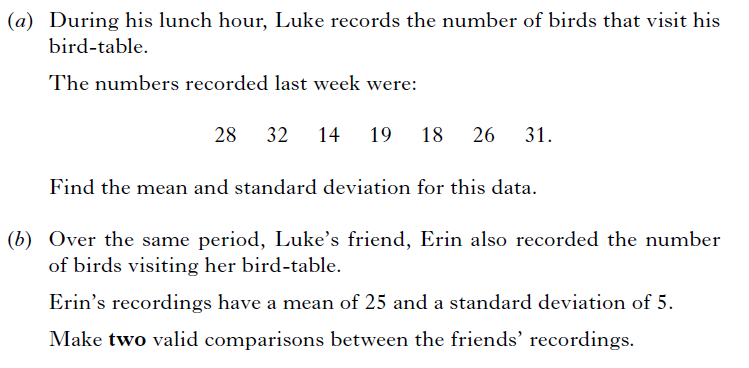
5.

**Calculator**

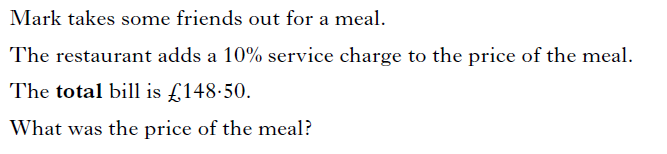


1.

2.



3.

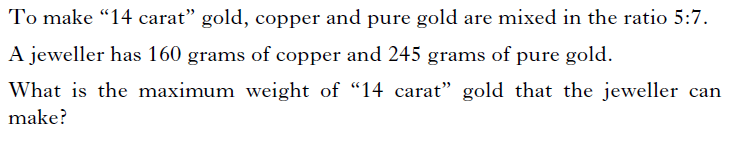


**3**

**4**

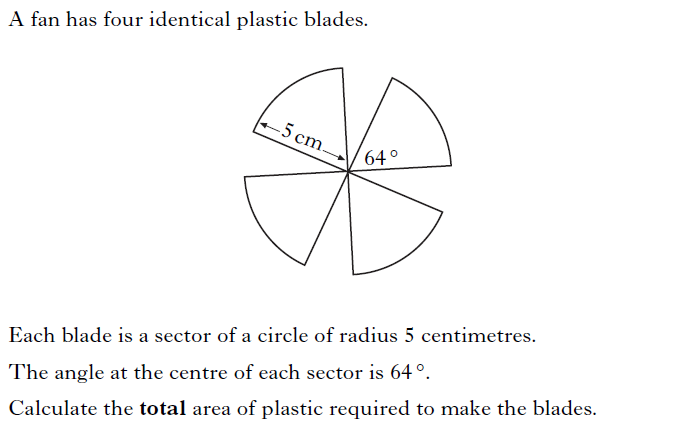
**2**

**3**



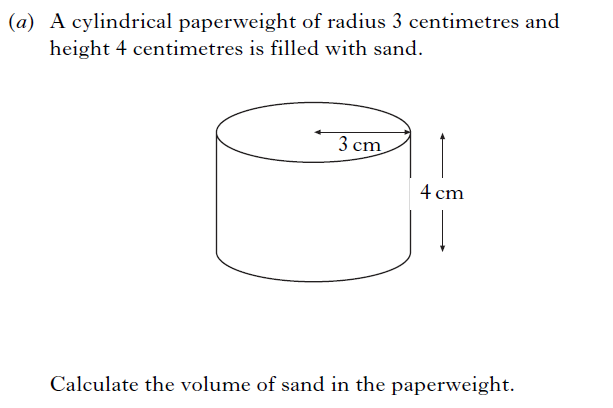
4.

**3**



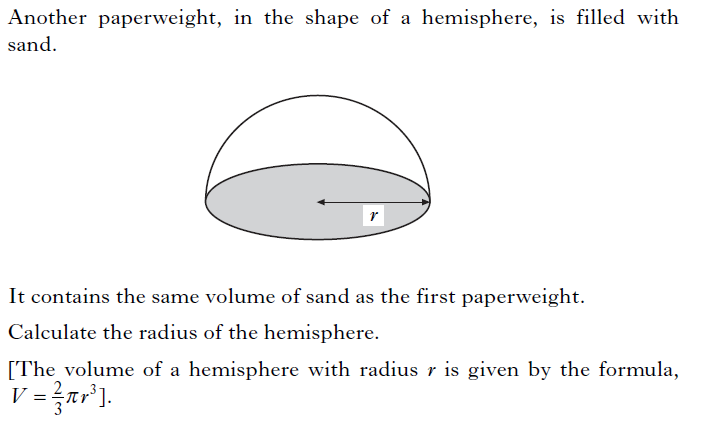
5.

**3**



6.

**2**

(b)

**3**

Non- Calculator

|  |  |  |
| --- | --- | --- |
| Question | Marking Scheme | Evidence |
| 1. | ANS :80.44   * Know to multiply first * Complete calculation | * 3.72 x 20 = 74.4 * 74.4 + 6.04 = 80.44 |
| 2. | ANS :   * Start to divide fractions * Multiply fractions and simplify | * x * = |
| 3. | ANS :250 males   * Know to divide by 8 * Know to multiply by 5 | * 400/8 = 50 * 50 x 5 = 250 |
| 4. | ANS :yes, 94cm > 80cm   * Calculate scale factor * Know how to find length * Calculate length * Conclusion with justification | * 75/40 = 1.875 * 1.875 x 48 * 94 * Yes because 94cm > 80cm |
| 5. | ANS :2cm   * Identify radius * Know to use Pythagoras * Complete Pythagoras * Calculate depth | * 5cm * 52 - 42 * 3 * 5 – 3 = 2cm |

**Calculator**

|  |  |  |
| --- | --- | --- |
| 1. | ANS : £684.70   * Know to increase by 4.5% * Calculate value * Round to nearest penny | * 1.045 * 600 x 1.045 = 684.699… * £684.70 |
| 2.(a) | ANS : mean 24, S.d 7   * Know how to calculate mean * Calculate * Substitute into formula * Calculate standard deviation | * (28 +32 +14 +19 +18 +26 +31)/7 = 24 * 16,64,100,25,36,4,49 * 7 |
| (b) | ANS : two valid statements   * Statement about mean * Statement about s.d | * On average more visited Erin’s table (higher mean) * S.d for Erin was lower so number of birds each day is more consistent |
| 3. | ANS : £135   * Know what % total bill is of price of meal * Know how to calculate price of meal * Calculate price of meal | * 110 * 148.5/110 x 100 * £135 |
| 4. | ANS : 384g   * Calculate weight of 1 part * Calculate weight of gold used * Calculate total weight | * 160 / 5= 35 * 35 x 7 = 224 * 160 + 224 = 384g |
| 5. | ANS :55.85 cm2   * Know to find angle of sector * Find area of sector * Find total area of blades | * 64/360 or equivalent * π x 52  x 64/360 * 4 x 13.96… = 55.85cm2 |
| 6.(a) | ANS :113.1 cm3   * Substitute values correctly * Calculate volume | * π x 32 x 4 * 113.1 cm3 |
| (b) | ANS :3.78cm   * Substitute values correctly * Start to evaluate * Complete evaluation for r | * 113.1 = x π x r3 * r3 = 113.1 /π x (3/2) * r = =3.78 cm |