**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 : $1\frac{9}{10}$* Start to divide fractions
* Multiply fractions and simplify
 | * $\frac{19}{6}$ x $\frac{3}{5}$
* $\frac{57}{30}$ = $1\frac{9}{10}$
 |
| 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
* $\sqrt{294/7}$
* 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 = $\frac{2}{3}$ x π x r3
* r3 = 113.1 /π x (3/2)
* r = $\sqrt[3]{54}$=3.78 cm
 |