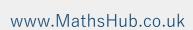
Level 2 Functional Skills Maths Self Quizzing Questions

Module 7 – Estimating and Approximating





Shawna has a new job. Her hourly pay is £10.31 per hour and she will be contracted to work a total of 41 hours per week. She will be paid for 52 weeks per year. She has been told she will be paid approximately £22,000 per year before tax. Use estimation to check if this estimate is sensible

£10.31
$$\approx$$
 £10
41 \approx 40
52 \approx 50

Given each number was rounded down, and £20,000 is just below £22,000, this amount looks sensible.

If $\pi=3.14$. Calculate $\pi\times412$ and round the answer to the nearest hundred.

$$= 3.14 \times 412 = 1293.68$$

1293.69 = 1300 to the nearest hundred.

Approximate:

1.99918^2

$$1.99918^2 \approx 2^2 = 4$$

By rounding each of these values to the nearest whole number, calculate an estimate for:

$$4.\,1\times9.\,9\times0.\,89\times7.\,1$$

$$\approx 4 \times 10 \times 1 \times 7 = 40 \times 7 = 280$$

Round 3. $21\times0.\,321$ to 1 decimal place.

$$3.21 \times 0.421 = 1.35141$$

1.35141 = 1.4 to 1 decimal place

Estimate the value of 7.321×39.459

$$\approx 7 \times 40 = 280$$

Estimate the value of:

$$(3.21 + 9.1 + 0.98) \times 2.987$$

$$\approx (3 + 9 + 1) \times 3 = 13 \times 3 = 39$$

Approximate:

$$\frac{89.8769}{5.01298}$$

$$\frac{89.8769}{5.01298} \approx \frac{90}{5} = 18$$

Round 3.567 to 2 decimal places

$$= 3.57$$

Round 7.419 to 2 decimal places

$$= 7.42$$

Round 12.3912to 1 decimal places

$$= 12.4$$

Round $3.\,9732\ to\ 1\ decimal\ places$

$$= 4.0$$

Round 10.302 to 2 decimal places

$$= 10.30$$

Round 0.00392 to 4 decimal places

$$= 0.0039$$

Round $3.567\ to\ 2\ decimal\ places$

$$= 3.57$$

Round 12.73 to the nearest whole number.

$$= 13$$

Round 23143 to the nearest hundred.

$$= 23100$$