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

$£10.31 \approx £10$

$41 \approx 40$

$52 \approx 50$

$£10 \times 40 \times 50 = £400 \times 50 = £20,000$

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

If $\pi = 3.14$. Calculate $\pi \times 412$ 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:

$$4.1 \times 9.9 \times 0.89 \times 7.1$$

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

Round 3.21×0.321 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:
$$\frac{89.8769}{5.01298}$$

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

Round 3.567 to 2 decimal places
$= 3.57$

Round 7.419 to 2 decimal places
$= 7.42$

Round 12.3912 to 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.

$= 23100$