

Solve the each expression and keep the correct number of significant digits.

$$1.2 + 0.34528$$

$$1.2000 + 0.25030$$

$$0.020 + 0.0003452$$

$$20 + 0.3452$$

$$20.0 + 0.3452$$

$$20. + 0.3452$$

$$200 + 34.52$$

$$(1.234)(0.25)$$

$$(300)(1.2345)$$

$$(300)(3.52)$$

$$(3492.43)(3.52)(0.2)$$

$$1.2 + \frac{3.456}{1.3}$$

$$1.242 + \frac{3456}{1000}$$

$$1.242 + \frac{0.03456}{0.00010}$$

$$1.242 + \frac{1}{3}$$

$$1.242 + (0.543)(2.0)$$

$$1.242 + (543)(20)$$

$$\frac{2.3 + 0.2348}{2}$$

$$\frac{6.345 + 0.001}{1.2}$$

$$\frac{(6.345)(0.02) + 0.001}{1.2}$$

Solve the each expression and keep the correct number of significant digits.

$$1.2 + 0.34528 = 1.54528 = 1.5$$

(Handwritten: 1.2 has 2 sig figs, 0.34528 has 5 sig figs; result 1.5 has 2 sig figs)

$$1.2000 + 0.25030 = 1.45030 = 1.4503$$

(Handwritten: 1.2000 has 5 sig figs, 0.25030 has 5 sig figs; result 1.4503 has 5 sig figs)

$$0.020 + 0.0003452 = 0.0203452 = 0.020$$

(Handwritten: 0.020 has 2 sig figs, 0.0003452 has 7 sig figs; result 0.020 has 2 sig figs)

$$20 + 0.3452 = 20.3452 = 20$$

(Handwritten: 20 has 2 sig figs, 0.3452 has 4 sig figs; result 20 has 2 sig figs)

$$20.0 + 0.3452 = 20.3452 = 20.3$$

(Handwritten: 20.0 has 3 sig figs, 0.3452 has 4 sig figs; result 20.3 has 3 sig figs)

$$20. + 0.3452 = 20.3452 = 20.$$

(Handwritten: 20. has 2 sig figs, 0.3452 has 4 sig figs; result 20. has 2 sig figs)

$$200 + 34.52 = 234.52 = 200$$

(Handwritten: 200 has 2 sig figs, 34.52 has 4 sig figs; result 200 has 2 sig figs)

$$(1.234)(0.25) = 0.3085 = 0.31$$

(Handwritten: 1.234 has 4 sig figs, 0.25 has 2 sig figs; result 0.31 has 2 sig figs)

$$(300)(1.2345) = 370.35 = 400$$

(Handwritten: 300 has 1 sig fig, 1.2345 has 5 sig figs; result 400 has 1 sig fig)

$$(300)(3.52) = 1056 = 1000$$

(Handwritten: 300 has 1 sig fig, 3.52 has 3 sig figs; result 1000 has 1 sig fig)

$$(3492.43)(3.52)(0.2) = 2458.67072 = 2000$$

(Handwritten: 3492.43 has 6 sig figs, 3.52 has 3 sig figs, 0.2 has 1 sig fig; result 2000 has 1 sig fig)

$$1.2 + \frac{3.456}{1.3} = 1.2 + 2.65846 = 3.85846 = 3.9$$

$$1.242 + \frac{3456}{1000} = 1.242 + 3.456 = 4.698 = 5$$

$$1.242 + \frac{0.03456}{0.00010} = 1.242 + 345.6 = 346.842 = 350$$

$$1.242 + \left(\frac{1}{3}\right)_{\text{assumed exact with integer numbers}} = 1.242 + 0.3333 = 1.57533 = 1.575$$

$$1.242 + (0.543)(2.0) = 1.242 + 1.086 = 2.328 = 2.3$$

$$1.242 + (543)(20) = 1.242 + 10860 = 10861.242 = 10000$$

$$2.3 + 0.2348 = 2.5348 = 1.2674 = 1.3$$

(2) assumed exact

$$6.345 + 0.001 = 6.346 = 5.28833 = 5.3$$

$$(6.345)(0.02) + 0.001 = 0.1269 + 0.001 = 0.1279 = 0.10658 = 0.1$$