

Year 3 Homework Answer:

Module 8: Introduction to decimals

1.

a) $0.7 + 0.07$ or $0.1 \times 7 + 0.01 \times 7$ or $\frac{7}{10} + \frac{7}{100}$

b) $5 + 0.2 + 0.05$ or $1 \times 5 + 0.1 \times 2 + 0.01 \times 5$ or $5 + \frac{2}{10} + \frac{5}{100}$

c) $8 + 0.6 + 0.09$ or $1 \times 8 + 0.1 \times 6 + 0.01 \times 9$ or $8 + \frac{6}{10} + \frac{9}{100}$

d) $30 + 2 + 0.1 + 0.4$ or $10 \times 3 + 1 \times 2 + 0.1 \times 1 + 0.01 \times 4$ or $30 + 2 + \frac{1}{10} + \frac{4}{100}$

e) $70 + 1 + 0.02$ or $10 \times 7 + 1 \times 1 + 0.01 \times 2$ or $70 + 1 + \frac{2}{100}$

f) $100 + 5 + 0.3 + 0.06$ or $100 \times 1 + 1 \times 5 + 0.1 \times 3 + 0.01 \times 6$ or $100 + 5 + \frac{3}{10} + \frac{6}{100}$

g) $600 + 10 + 7 + 0.08$ or $100 \times 6 + 10 \times 1 + 1 \times 7 + 0.01 \times 8$ or $600 + 10 + 7 + \frac{8}{100}$

2.

11.407, 11.074, 3.201, 3.099, 2.741, 2.095, 0.908, 0.199
109.21, 109.17, 109.1, 53.1, 53.07, 49.62, 49.062, 5.309

3.

a) six point seven two

b) nine point zero three

c) twenty-five point eight one

d) seventy-seven point four five

e) zero point four zero four; or four zero four thousandths

f) five hundred ninety-two point eight three

4.

a) 0.02

b) 400.01

c) 66.83

d) 5.009

e) 30.07

- f) 123.58
- g) 707.06
- h) 910.019

5.

1.4	14.2	56.3
0.6	6.8	31.6
3.84	122	71

6.

5 cm	325 cm	76 cm
17 g	2680 g	934 g
6.01 m	0.109 m	1.508 m
0.32 kg	0.047 kg	1.054 kg
10	100	100
62	4	31
2	29	0.1
0.83	$\frac{77}{100}$	$\frac{1}{1}$ (Answer may vary)

7.

$$8.5 - 3.26 = 5.24$$

$$5.24 + 3.62 = 8.86$$

The correct answer is 8.86

8.

$$265 \text{ g} = 0.265 \text{ kg};$$

$$890 \text{ g} = 0.89 \text{ kg}$$

$$1.25 + 0.265 + 2.4 + 0.89 = 4.805 \text{ kg}$$

9.

$$24.57 - 18.09 = 6.48 \text{ kg left}$$

$$24.57 + 6.48 = 31.05 \text{ kg in total}$$

10.

$$0.36 \text{ km}$$

11.

$$44.90 - 9.90 = 35 \text{ dollars}$$

$$89.8 - 44.90 - 35 = 9.9 \text{ dollars}$$

12.

$$2.4 + 2.4 - 0.03 = 4.77 \text{ metres}$$