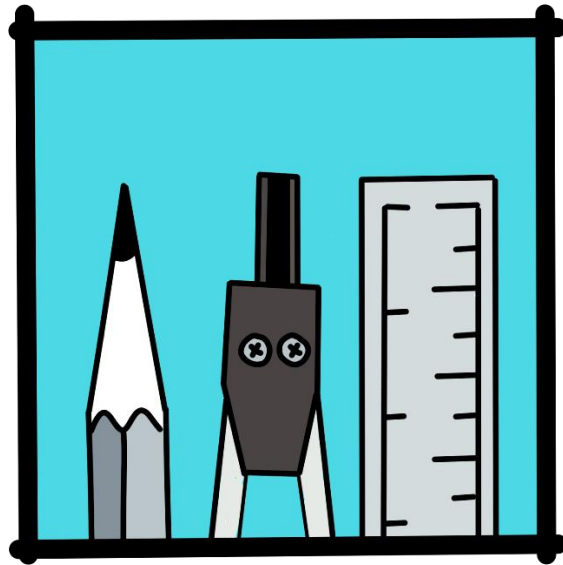




Knox Academy

Mathematics Department



PERSONAL FINANCE

ESSENTIAL NUMERACY SKILLS

- **ANSWERS** -

ESSENTIAL NUMERACY SKILLS

DECIMALS

Ex1

1. (a) 5.4
5.5
5.7
5.8
5.9

(b) 0.8
2.1
3.6
3.8
13.2

(c) 1.9
2.8
4.4
8.6
9.1

(d) 9.12
9.15
9.19
9.23
9.25
9.34

(e) 0.098
0.44
0.48
0.53
0.59
1.11

(f) 1.65
1.79
1.98
2.44
2.54
3.11

(g) 41.78
41.8
41.82
41.86
41.88
41.9

(h) 0.41
0.63
0.8
2.27
11.62
24.7

2. (a) 0.08
0.13
0.2
0.29
0.6

(b) 5.09
5.1
5.11
5.28
5.3
5.35

(c) 80.49
80.6
80.68
86
86.09
86.1

(d) 3.125
3.18
3.199
3.2
3.24
3.3

(e) 0.028
0.28
0.708
0.8
0.9

(f) 5.007
5.1
5.107
5.49
5.81
5.9

(g) 20.009
20.08
20.083
20.3
20.56

(h) 0.057
0.423
0.43
0.5
0.526
0.6

(i) £ 1
£ 1.99
£ 4.30
£ 6.74
£ 7
£ 10

(j) £0.07
32p
60p
£0.62
£1
£2.65
£10

3. (a) 7.6 is larger than 7.2

(b) 0.6 is larger than 0.5

(c) 3.2 is larger than 3.15

(d) 4.9 is larger than 4.21

(e) 8.088 is larger than 8.0851

(f) 9.19 is larger than 9.109

(g) 3.12 is larger than 3.104

(h) 400.8 is larger than 40.08

4. (a) £11.70

£11.78

£11.80

£11.88

£12.86

£14.87

£21.70

(b) Total = £96.59

(c) Mean = $96.59 \div 7$
= 13.7985...
= £13.80

5. (a) 0.25 hrs

0.5 hrs

32 mins

60 mins

1.75 hrs

110 mins

2 hrs

2.25 hrs

2.5 hrs

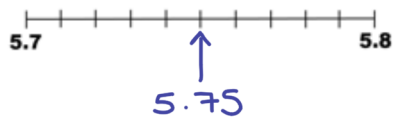
180 mins

(b) 3 Rubik's cubes were solved within an hour.

(c) 1 Rubik's cube was solved in 3 hours or longer

Ex 2

1. (a)(i)



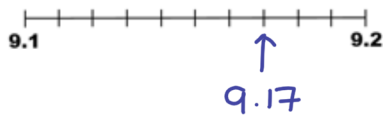
(ii) 5.8

(b)(i)



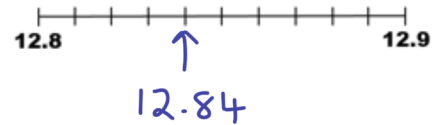
(ii) 3.4

(c)(i)



(ii) 9.2

(d)(i)



(ii) 12.8

2. (a) 6.8

(b) 4.2

(c) 21.6

(d) 10.5

(e) 48.1

(f) 3.2

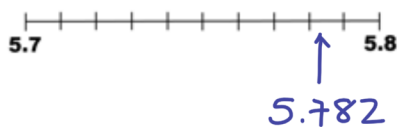
(g) 0.9

(h) 10.4

(i) 9.9

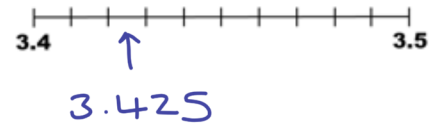
(j) 63.0

3. (a)(i)



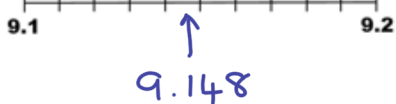
(ii) 5.8

(b)(i)



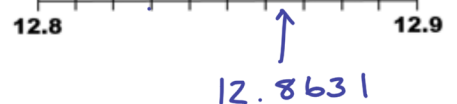
(ii) 3.4

(b)(i)



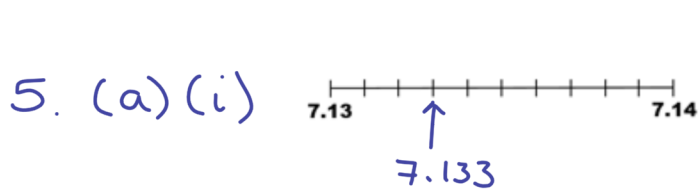
(ii) 9.1

(c)(i)



(ii) 12.9

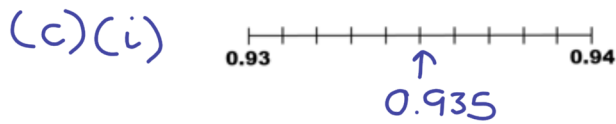
4. (a) 10.2 (b) 5.2 (c) 8.1 (d) 0.6 (e) 39.8
 (f) 7.3 (g) 93.1 (h) 38.8 (i) 1.5 (j) 0.6



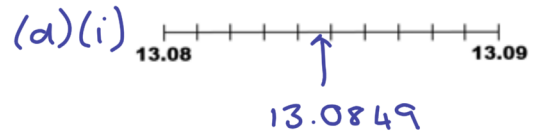
(ii) 7.13



(ii) 3.47



(ii) 0.94



(ii) 13.08

6. (a) 5.67 (b) 39.26 (c) 2.77 (d) 74.58 (e) 43.55
 (f) 18.62 (g) 9.93 (h) 61.22 (i) 6.04 (j) 0.96
 (k) 35.26 (l) 3.25 (m) 1.65 (n) 91.57 (o) 45.70
 (p) 6.71 (q) 16.57 (r) 52.61 (s) 0.08 (t) 7.43

7. (a) £7.30 (b) £0.35 (c) £0.05
 (d) £9.51 (e) £103.60 (a) £30.00

Ex 3

1. (a) $£8.56 + £5.72$
 $= £14.28$

(b) $£4.91 + £2.12$
 $= £7.03$

(c) $£8.37 + £9.53$
 $= 17.9$
 $= £17.90$

(d) $£7.81 + £8.07$
 $= £15.88$

(e) $£4.14 + £7.86$
 $= £12$

(f) $£9.89 + £3.49$
 $= £13.38$

(g) $£7.70 + £4.53$
 $= £12.23$

(h) $£205.96 + £199.06$
 $= £405.02$

(i) $£5.21 + £8.94$
 $= £14.15$

(j) $£17 + £9.82$
 $= £26.82$

(k) $£250.38 + £239.62$
 $= £490$

2. (a) $£8.22 - £1.27$
 $= £6.95$

(b) $£7.93 - £1.79$
 $= £6.14$

(c) $£9.83 - £6.13$
 $= 3.7$
 $= £3.70$

(d) $£1.87 - £0.55$
 $= £1.32$

(e) $£7 - £5.69$
 $= £1.31$

(f) $£6.87 - £6.37$
 $= 0.5$
 $= £0.50$ or 50p

(g) $£9.20 - £8.31$
 $= £0.89$ or 89p

(h) $£52.70 - £42.90$
 $= 9.8$
 $= £9.80$

$$\begin{aligned} \text{(i)} \quad & \text{£}160.21 - \text{£}108.51 \\ & = 51.7 \\ & = \text{£}51.70 \end{aligned}$$

$$\begin{aligned} \text{(j)} \quad & \text{£}37.02 - \text{£}29.82 \\ & = 7.2 \\ & = \text{£}7.20 \end{aligned}$$

$$\begin{aligned} \text{(k)} \quad & \text{£}3.92 + \text{£}2.78 - \text{£}4.22 \\ & = \text{£}2.48 \end{aligned}$$

$$\begin{aligned} 3. \text{ (a)} \quad & \text{£}6.71 + \text{£}2.79 \\ & = 5.5 \\ & = \text{£}5.50 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & \text{£}20 - \text{£}5.50 \\ & = \text{£}14.50 \end{aligned}$$

$$\begin{aligned} 4. \text{ (a)} \quad & \text{£}12.28 + \text{£}9.45 + \text{£}14.07 \\ & = 35.8 \\ & = \text{£}35.80 \end{aligned}$$

$$\text{(b)} \quad \text{£}50 - \text{£}35.80 = \text{£}14.20$$

Sam can't afford it, he is £14.20 short.

$$\begin{aligned} 5. \quad & 1.9 + 1.875 + 2.01 + 0.89 + 1.78 + 1.22 + 2.4 \\ & = 12.075 \\ & = 12 \text{ km} \end{aligned}$$

$$\begin{aligned} 6. \text{ (a)} \quad & \text{£}11 - \text{£}8.27 = \text{£}2.73 \\ & \text{£}8.27 + \boxed{\text{£}2.73} = \text{£}11 \end{aligned}$$

$$\text{(b)} \quad \text{£}13.08 - \text{£}9.38 = 3.7 = \text{£}3.70$$

$$\text{£}13.08 - \boxed{\text{£}3.70} = \text{£}9.38$$

Ex 4

1. (a) $£1.25 \times 8$
 $= £10$

(b) $5 \times £4.12$
 $= 20.6$
 $= £20.60$

(c) $£12.80 \times 3$
 $= 38.4$
 $= £38.40$

(d) $£7.62 \times 7$
 $= £53.34$

(e) $£2.63 \times 15$
 $= £39.45$

(f) $£0.38 \times 21$
 $= £7.98$

(g) $£14.20 \times 10$
 $= £142$

(h) $13 \times £12.83$
 $= £166.79$

(i) $£9.34 \times 1.5$
 $= £14.01$

(j) $0.5 \times £16.42$
 $= £8.21$

2. (a) $£3.96 \div 6$
 $= £0.66$ or 66p

(b) $£0.75 \div 5$
 $= £0.15$ or 15p

(c) $£85.60 \div 4$
 $= £21.40$

(d) $£3.40 \div 5$
 $= £0.68$ or 68p

(e) $£3.30 \div 2$
 $= £1.65$

(f) $£24.30 \div 5$
 $= £4.86$

(g) $£21.36 \div 6$
 $= £3.56$

(h) $£2.38 \div 7$
 $= £0.34$ or 34p

(i) $£12.82 \div 4$
 $= 3.205$
 $= £3.21$

(j) $£7.42 \div 8$
 $= £3.71$

(k) $£34.50 \div 15$
 $= 2.3$
 $= £20.30$

(l) $£8.66 \div 5$
 $= 1.732$
 $= £1.73$

$$3. \quad \text{£}4.12 \times 13 \\ = \text{£}53.56$$

$$4. \quad 2 \times \text{£}14.60 + 5 \times \text{£}7.52 \\ = \text{£}29.20 + \text{£}37.60 \\ = \text{£}66.8$$

$$5. \quad \text{£}4.20 \times 16 \\ = \text{£}67.20$$

$$6. \quad \text{£}19.50 \div 6 \\ = \text{£}3.25$$

$$7. \quad \text{£}154.50 \div 4 \\ = 38.625 \\ = \text{£}38.62 \quad \leftarrow \text{can't round up, not enough money}$$

$$8. \quad 196.3 \div 12 \\ = 16.3583\dots \\ = 17 \text{ tins of paint}$$

$$9. \quad \text{£}51.83 \div 1.44 \\ = 35.9930\dots \\ = 36.00 \text{ litres}$$