

Workbook answers

Exercise 1.1

1 a 7 b 1 c 5 d 5

2 a -2 b 9 c 9 d 1

3

| | | |
|----|----|-----|
| 1 | 4 | 5 |
| 2 | 6 | -3 |
| -6 | -2 | -11 |

4 a 15 b -25 c -15 d 17

5 a 25 b 5 c 11 d -21

6 a -7 b 6 c 4 d -10

7 a 9 b 5 c 2 d -3

8 a 4 b 17 c 20 d 6

9 a -80 b 200 c -800 d 90

10 -6

11 Two possible answers: 2 or 4.

12 a $-3+4=1$ b $-5+3=-2$

c $5+-2=3$

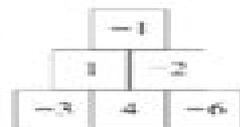
13

| | | |
|----|---|----|
| + | 3 | -1 |
| 2 | 5 | -2 |
| -2 | 1 | -6 |

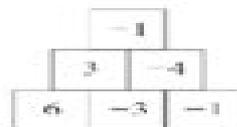
14

| | | | |
|----|----|----|----|
| - | -4 | 6 | 2 |
| 3 | 7 | 3 | 1 |
| -3 | 1 | -9 | -5 |

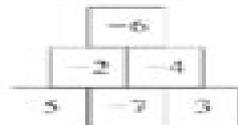
15 a



b



16



One method is to try different numbers in the bottom square. Try to get closer to -6 each time.

Exercise 1.2

1 a -30 b 36 c -55 d -49

2 a -12 b -4 c -5 d 7

3

| | | |
|----|-----|-----|
| x | 4 | 7 |
| -2 | -8 | -14 |
| -6 | -24 | -42 |

4 a -12 b -30 c -28 d -30

5 a -3 b -7 c -2 d -6

6 a 8 b 3 c 13 d 5

7 a 9 b -1 c -36 d 32

8 a -12 b 21 c 8 d -1

9 a -1200 b 900 c 1200 d -200

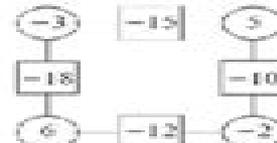
10 a -2 and 9; 3 and -6; -3 and 6; 1 and -18; 1 and 18

b There are two more, as listed in part a.

11

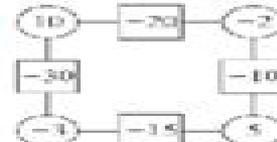
| | | |
|----|-----|-----|
| x | 6 | 4 |
| -5 | -30 | -20 |
| -8 | -48 | -32 |

12 a i



ii -55

b i



ii -75

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Hongru Du



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 down i do have at the moment piston number 3 on exhaust valve open i do think i have my timing then in order i just had to
 make sure

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