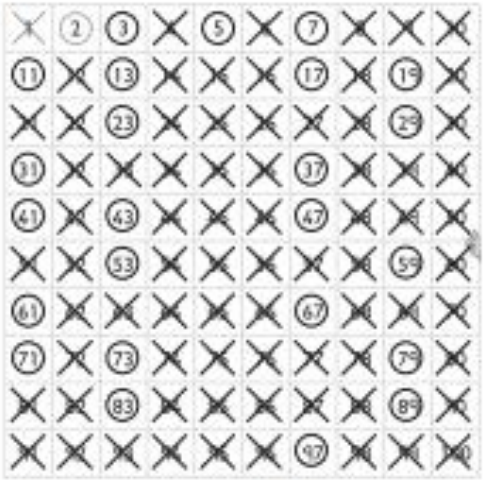
10 **(2)** **(a)** 1 and 17, prime
(b) 1, 2, 11 and 22, composite
(c) 1, 2, 3, 5, 6, 10, 15 and 30, composite
(d) 1, 2, 4, 11, 22 and 44, composite
(e) 1 and 47, prime
(f) 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48, composite
(g) 1, 2, 4, 13, 26 and 52, composite
(h) 1 and 61, prime

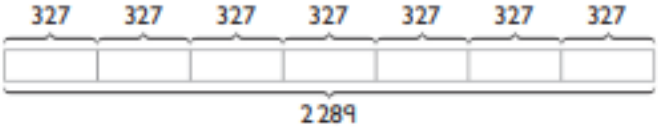
11 **(3)** **(a)**



(b) 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97

12 **(4)** **(a)** True. 67 is a prime number. It has only factors of 1 and 67.
(b) False. 2 is a prime number. It has only factors of 1 and 2.
(c) False. 63 is a composite number. It has factors of 1, 3, 7, 9, 21 and 63.
(d) False. 81 is a composite number. It has factors of 1, 3, 9, 27 and 81.

Workbook Practice 2 (pages 59 to 62)

Page	Answers
59	**(1) (a)**  **(b)** I must multiply 327 strawberries by 7. **(c)** 327 ≈ 300 (rounded to the nearest hundred) Estimate: 300 × 7 = 2100 **(d)** $\begin{array}{r} 3\ 2\ 7 \\ \times\quad\quad 7 \\ \hline 2\ 2\ 8\ 9 \end{array}$ **(e)** There are 2289 strawberries in the morning.
60	**(2) (a)** She works for 17 hours per week. In 7 weeks, she works for: $\begin{array}{r} 1\ 7 \\ \times\quad 7 \\ \hline 1\ 1\ 9 \end{array}$ She works for 119 hours in 7 weeks. **(b)** She gets paid $8 per hour. In 7 weeks, she will make: $\begin{array}{r} 1\ 1\ 9 \\ \times\quad 8 \\ \hline 9\ 5\ 2 \end{array}$ She will make $952 in 7 weeks.

61

(3) (a) There are 24 goats.
There are 8 times as many chickens as goats.

$$\begin{array}{r} 2\ 4 \\ \times\quad 8 \\ \hline 1\ 9\ 2 \end{array}$$

There are 192 chickens.

(b) We need to sum up the total number of goats and chickens.

$$\begin{array}{r} 1\ 9\ 2 \\ +\quad 2\ 4 \\ \hline 2\ 1\ 6 \end{array}$$

There are 216 goats and chickens altogether.

62

(4) (a) He saves \$6 per day for 125 days. Therefore, he saves:

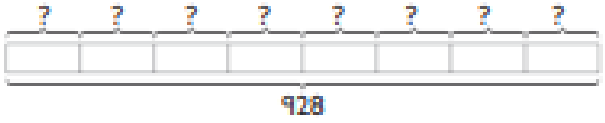
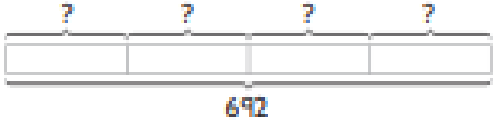
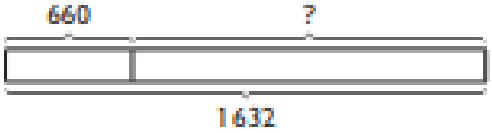
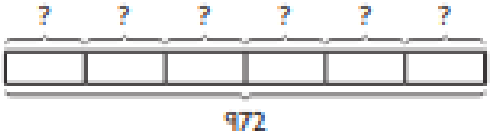
$$\begin{array}{r} 1\ 2\ 5 \\ \times\quad 6 \\ \hline 7\ 5\ 0 \end{array}$$

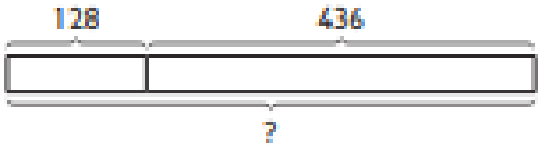
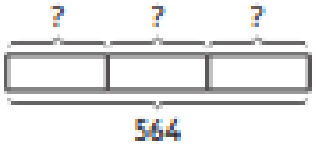
Samir saves \$750.

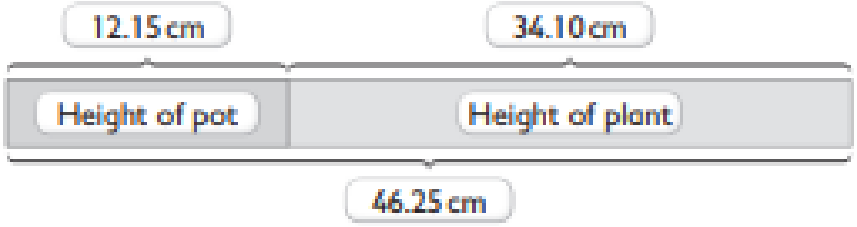
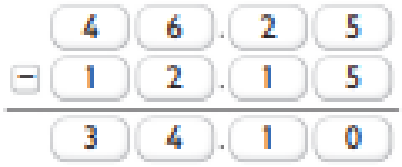
(b) \$887 − \$750

$$\begin{array}{r} 8\ 8\ 7 \\ -\ 7\ 5\ 0 \\ \hline 1\ 3\ 7 \end{array}$$

Samir still needs to save \$137.

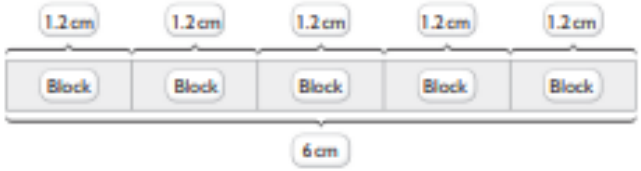
Page	Answers
69	**(1) (a)**  **(b)** Divide 928 by 8 to find the number of pages in each notebook. **(c)** 928 ÷ 8 = 116 **(d)** There are 116 pages in each notebook.
70	**(2) (a)**  **(b)** Divide 692 by 4 to find the number of beads on each necklace. **(c)** 692 ÷ 4 = 173 **(d)** There are 173 beads on each necklace.
71	**(3) (a)**  Subtract 660 ml from 1 632 ml of milk to find the amount of milk remaining. 1 632 − 660 = 972 There are 972 ml of milk left after baking the cake. **(b)**  Divide 972 by 6 to find the amount of milk in each glass. 972 ÷ 6 = 162 There are 162 ml of milk in each glass.

72	**(4)** **(a)**  Add 128 and 436 together to find the total number of cherries. 128 + 436 = 564 There are 564 cherries in total. **(b)**  Divide 564 by 3 to find the number of cherries each friend got. 564 ÷ 3 = 188 Each friend got 188 cherries.

Page	Answers
159	**(1)** Let's draw a model to represent the problem.  We subtract to find the answer.  So, the plant has a height of 34.1 cm.

160–161

(2) (a) Let's draw a model to represent the problem.



We [divide] to find the answer.

$$
\begin{array}{r}
1.2 \\
5\overline{)\,6.0} \\
-\,5 \\
\hline
1\,0 \\
-\,1\,0 \\
\hline
0
\end{array}
$$

So, the height of 1 block is [1.2] cm.

(b) 2 blocks are removed from the stack. Find the height of the remaining stack.

$2 \times 1.2 = 2.4$

$$
\begin{array}{r}
1.2 \\
\times\quad 2 \\
\hline
2.4
\end{array}
$$

$6.0 - 2.4 = 3.6\,\text{cm}$

$$
\begin{array}{r}
{\scriptstyle 5}\quad{\scriptstyle 10} \\
\not{6}.\not{0} \\
-\,2.4 \\
\hline
3.6
\end{array}
$$

The height of the remaining stack is [3.6] cm.

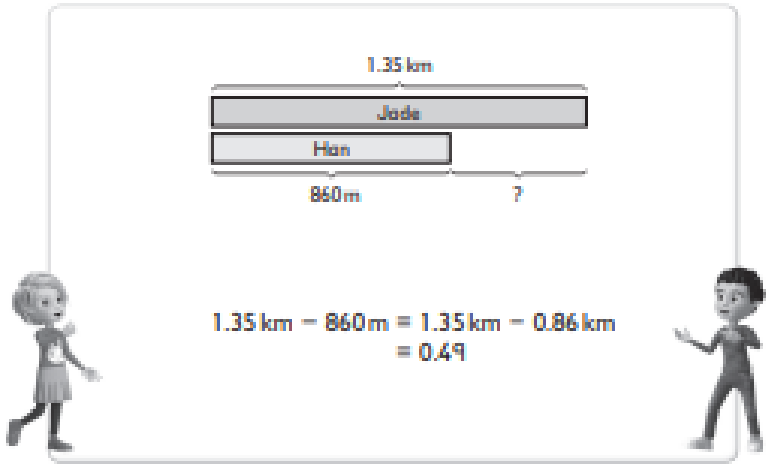
(c) Padma used similar blocks to make a stack that is 32.4 cm high.
How many blocks did she use?

$32.4 \div 1.2 = 324 \div 12$
$= 27$

$$
\begin{array}{r}
27 \\
12\overline{)\,{}^{2}\not{3}\not{2}^{12}\not{4}} \\
-\,24 \\
\hline
84 \\
-\,84 \\
\hline
0
\end{array}
$$

162–163 **(3)** **(a)** How much further does Jade walk than Han?

Draw a model to represent the problem.



$1.35\,\text{km} - 860\,\text{m} = 1.35\,\text{km} - 0.86\,\text{km}$
$= 0.49$

Jade walks 0.49 km more than Han.

(b) What is the total distance that Jade and Han walk to school?

$1.35\,\text{km} + 0.86\,\text{km} = 2.21\,\text{km}$

Jade and Han walk a total distance of 2.21 km.

(c) Jade walks from her home to school and back 5 days a week.

What is the total distance she walks in 5 days?

$\text{Total distance} = (1.35 \times 2) \times 5$
$= 2.7 \times 5$
$= 13.5\,\text{km}$

Jade walks a total distance of 13.5 km in 5 days.