

## End-of-unit review

1 Work these out.

a  $5 + -3$

b  $-3 - 5$

c  $-8 + -7$

d  $3 - 13$

e  $-7 - 7$

2 Work these out.

a  $2 - -5$

b  $-3 - -4$

c  $12 - -5$

d  $-5 - -12$

e  $-9 - -9$

3 Work these out.

a  $-3 \times -9$

b  $8 \div -4$

c  $-20 \times 4$

d  $-30 \div -5$

e  $-16 \div 8$

4 Copy and complete this multiplication table.

$\times$	-2	3	5
-4			
-3			
6			30

5 Here is a number chain. Each number is the product of the previous two numbers.

$-1 \rightarrow -2 \rightarrow 2 \rightarrow -4 \rightarrow \square \rightarrow \square$

Write down the next two numbers in the chain.

6 Find all the factors of each number.

a 42

b 52

c 55

d 29

e 64

f 69

7 a Find two prime numbers that add up to 40.

b Find another two prime numbers that add up to 40.

c Are there any more pairs of prime numbers that add up to 40? If so, what are they?

8 Write each of these numbers as a product of its prime factors.

a 18

b 96

c 200

d 240

e 135

f 175

9 Use your answers to question 8 to find:

a the highest common factor of 200 and 240

b the highest common factor of 135 and 175

c the lowest common multiple of 18 and 96

d the lowest common multiple of 200 and 240.

10 Find the square roots of each number.

a 25

b 81

c 169

d 256

11 Find the value of each number.

a  $\sqrt{64}$

b  $\sqrt[3]{64}$

12 In computing,  $2^{10}$  is called 1K. Write down as a number:

a 1K

b 2K

c 4K.

13 a Read Shen's comment. What mistake has he made?

b Correct the statement.



$3^5$  and  $5^3$  are both equal to 15.

14 The HCF of two numbers is 6. The LCM is 72. One of the numbers is 24.  
Find a possible value of the other number.