

Name \_\_\_\_\_

Date \_\_\_\_\_

## Stage 7 End-of-unit 1 test

Calculators are not allowed.

1 Work out:

a  $8 + -12$

\_\_\_\_\_

b  $-6 - -9$

\_\_\_\_\_

[2]

2 Fill in the missing integer in each calculation.

a  $\_\_ \times 5 = -15$

b  $\_\_ \div 4 = -8$

[2]

3 Find the lowest common multiple of 6 and 10.

\_\_\_\_\_

[2]

4 Find the highest common factor of 24 and 40.

\_\_\_\_\_

[2]

5 Work out  $\sqrt[3]{125} - \sqrt[3]{27}$ .

\_\_\_\_\_

[1]

6 The cube root of a number is 4. Work out the square root of the number.

\_\_\_\_\_

[2]

7 The highest common factor of two numbers is 3. The lowest common multiple of the two numbers is 18.

Work out the two numbers.

\_\_\_\_\_

\_\_\_\_\_

[2]

- 8** The number  $3*58$  has a digit replaced by \*. The number is divisible by 3.

Find all the possible values of \*.

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[2]

- 9** The product of two integers is  $-24$ . The sum of the two integers is 5.

Work out the two integers.

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[2]

- 10** A whole number is greater than 22 222. The number is also divisible by 9.

Find the smallest whole number with this property.

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[1]

- 11** Look at this pattern.

$$2^2 = 4$$

$$4^2 = 16$$

$$8^2 = 64$$

$$16^2 = 256$$

$$32^2 = ?$$

Use the pattern to find  $32^2$ .

Show your method.

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[2]

END OF TEST