1   Work out.
$$\sqrt[3]{-64}$$

........................................... [1]

# MARK SCHEME

| | −4 | | 1 | | |
|---|---|---|---|---|---|

2    Work out.

$$\sqrt[3]{-1000}$$

..................................................... [1]

# MARK SCHEME

| | | | |
|---|---|---|---|
| −10 | 1 | | |

3  Here is a pattern using square numbers.

$$1001^2 = 1\,002\,001$$

$$1002^2 = 1\,004\,004$$

$$1003^2 = 1\,006\,009$$

$$1004^2 = 1\,008\,016$$

$$1005^2 = 1\,010\,025$$

$$1006^2 = 1\,012\,036$$

Use the pattern to complete these statements.

$1007^2 =$ ............................................

$\sqrt{1\,018\,081} =$ ............................................

$1012^2 =$ ............................................

[2]

# MARK SCHEME

| | | | |
|---|---|---|---|
| 1 014 049 <br><br> 1009 <br><br> 1 024 144 | **2** | Award 1 mark for **two** correct answers. | |