

Name \_\_\_\_\_

1 Use  $<$  or  $>$  to compare.

$$-8 \bigcirc 2$$

$$-27 \bigcirc -43$$

$$0 \bigcirc -15$$

2 marks

2 The table shows the temperature in Warsaw at different times during the day.

| 6am                  | 10am                 | 2pm                 | 6pm                 | 10pm                |
|----------------------|----------------------|---------------------|---------------------|---------------------|
| $-5^{\circ}\text{C}$ | $-3^{\circ}\text{C}$ | $0^{\circ}\text{C}$ | $1^{\circ}\text{C}$ | $2^{\circ}\text{C}$ |

What is the difference in temperature between 10am and 10pm?

\_\_\_\_\_  $^{\circ}\text{C}$

1 mark

The temperature drops  $6^{\circ}\text{C}$  between 10pm and 6am the next day.

What is the temperature at 6am the next day?

\_\_\_\_\_  $^{\circ}\text{C}$

1 mark

3 Calculate:

$$-5 - 8 = \underline{\hspace{2cm}}$$

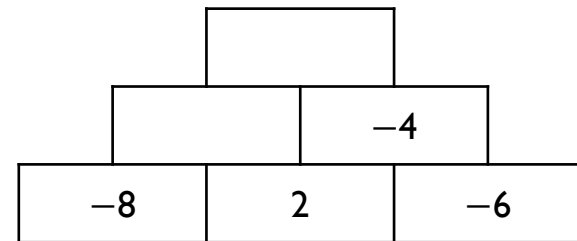
$$3 - (-2) = \underline{\hspace{2cm}}$$

2 marks

4 Here is an addition pyramid.

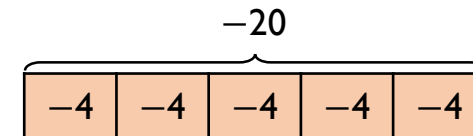
The number in each box is the sum of the two numbers below it.

Complete the addition pyramid.




2 marks

5 Complete the fact family for the bar model.



$$5 \times -4 = -20 \qquad -20 \div 5 = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \qquad \underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

2 marks

- 6  $a = -3$  and  $b = 10$   
Find the value of the expressions.

$$ab = \underline{\hspace{2cm}}$$

$$a^2 - b = \underline{\hspace{2cm}}$$

  
2 marks

- 7 Solve the equations.

$$3a + 9 = 3$$

$$a = \underline{\hspace{2cm}}$$

  
2 marks

$$-6 = \frac{h}{3} - 7$$

$$h = \underline{\hspace{2cm}}$$

  
2 marks

- 8 Tick the expressions that are equal to 10

$$15 - 8 + 3 \quad \square$$

$$\sqrt{16} + 2 \quad \square$$

$$-10 + 5 \times 4 \quad \square$$

$$6^3 - 8 \quad \square$$

  
2 marks

- 9 Ricky says that  $\sqrt{169} = 13$

H

Shanee thinks this is not the only answer.  
Why might Shanee think this?

  
1 mark

- 10 Evaluate.

H

$$-3^3 = \square$$

  
1 mark

Total marks