



Foundation / Higher Tier

Negative numbers

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The marks for **each** question are shown in brackets- *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
 - Keep an eye on the time.
 - Try to answer every question.
 - Check your answers if you have time at the end.
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1. (a) Calculate $5 + -3$

$$5 - 3 = 2$$

(b) Calculate $-4 + 7$

$$\frac{2}{(1)}$$

(c) Calculate $-6 + -2$

$$-6 - 2 = -8$$

$$\frac{3}{(1)}$$

(d) Calculate $9 - 12$

$$\frac{-8}{(1)}$$

(e) Calculate $-3 - 5$

$$\frac{-3}{(1)}$$

$$\frac{-8}{(1)}$$

(f) Calculate $8 - -4$

$$8+4$$

(g) Calculate $-7 + 10$

$$\frac{12}{(1)}$$

(h) Calculate $-9 - -6$

$$-9+6$$

$$\frac{3}{(1)}$$

(i) Calculate $12 + -15 - -1$

$$12-15+1 = -2$$

$$\frac{-3}{(1)}$$

(j) Calculate $-11 + -8 + -2$

$$-11-8-2 = -21$$

$$\frac{-2}{(1)}$$

$$\frac{-21}{(1)}$$

(Total for Question 1 is 10 marks)

2. (a) Calculate 4×-3

-12

(1)

(b) Calculate -5×6

-30

(1)

(c) Calculate -7×-2

14

(1)

(d) Calculate 9×-4

-36

(1)

(e) Calculate $15 \div -3$

-5

(1)

(f) Calculate $-24 \div -6$

$$\frac{4}{(1)}$$

(g) Calculate $36 \div -9$

$$\frac{-4}{(1)}$$

(h) Calculate $-2 \times 3 \times 4$

$$\frac{-24}{(1)}$$

(i) Calculate $-2 \times 3 \times -4$

$$\frac{24}{(1)}$$

(j) Calculate $-5 \times -2 \times 3$

$$\frac{30}{(1)}$$

(k) Calculate $-3 \times -4 \times -2$

$$\frac{-24}{(1)}$$

(l) Calculate $(-2)^2$

$$\frac{4}{(1)}$$

(m) Calculate -5^2

$$\frac{-25}{(1)}$$

(n) Calculate $(-3)^3$

$$\frac{-27}{(1)}$$

(o) Calculate $-1 \times -1 \times -1 \times -1$

$$\frac{1}{(1)}$$

(Total for Question 2 is 15 marks)