

INTEGERS RECAP
Grade 9
Learner homework
Day 1

First name:
Surname:
School:
Grade and class: e.g. Gr 9B
Date:



1) Work out the following without using a calculator

- | | |
|-------------|----------------|
| a) $3 - 8$ | d) $-3 - 8$ |
| b) $8 - 3$ | e) $-3 - (-8)$ |
| c) $-3 + 8$ | f) $-3 - (+8)$ |

2) Work out the following without using a calculator

- | | |
|-----------------|---------------------|
| a) $1 - 5 + 2$ | d) $-5 + (1 - 3)$ |
| b) $5 - 1 + 2$ | e) $-5 - (1 - 3)$ |
| c) $-5 - 1 + 2$ | f) $-1 + 2 - 3 + 5$ |

3) Work out the following without using a calculator

- | | |
|--------------------|------------------------|
| a) $\frac{15}{3}$ | d) $\frac{-15}{-3}$ |
| b) $\frac{-15}{3}$ | e) $\frac{-(-3)}{15}$ |
| c) $\frac{15}{-3}$ | f) $\frac{-3}{-(-15)}$ |

4) Work out the following without using a calculator

- | | |
|-------------------------|----------------------------|
| a) $\frac{12+3}{-3}$ | d) $\frac{-5-4}{+6+(-3)}$ |
| b) $\frac{3-12}{-2-1}$ | e) $\frac{-5-4}{(+3)(-1)}$ |
| c) $\frac{-3-12}{-7+4}$ | |

5) Work out the following without using a calculator

- | | |
|-------------------|--------------------------------|
| a) $(-5)^2$ | d) $2^3 - (-4)^2$ |
| b) $(-4)^3$ | e) $-4 + \sqrt[3]{64} - (2)^2$ |
| c) $\sqrt[3]{-8}$ | |

6) Challenge!! (still no calculators)

- | | |
|--------------------------------|---------------------------------|
| a) $-5 + \frac{3-12}{4-1} + 6$ | b) $-5 - \frac{3-12}{+3-1} + 7$ |
|--------------------------------|---------------------------------|

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Day 2

First name:
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A. Put a number in a box to make the following statements true

i) $\square \times (-6) = 12$ ii) $\square - (-3) = 4$ iii) $7 + \square = -4$

B. Give 3 possible answers to make the following statements true.

For example: $\square \times \square = -12$

Possible answers are: $\square \times \square = -12$ $\square \times \square = -12$ $\square \times \square = -12$

1) $\square \times \square = -10$

7) $\square - (-2) = \square$

2) $\square + \square = -5$

8) $\square - (-3) = \square - 2$

3) $\square - \square = -5$

9) $\square + \square \times \square = -6$

4) $\frac{\square}{\square} = -3$

10) $\square - \square \times \square = 12$

5) $3 + \frac{\square}{\square} = -2$

11) $(\square + \square) + (-5) = \square$

6) $-5 - (\square + \square) = -23$

12) $\frac{\square + \square}{\square} = -2$

