

ANSWERS Directed Numbers — W/C 8th June 2020

Task 2: Test yourself on the examples below: They get progressively more difficult – see how far you can get! Do not use a calculator. Write the questions in your book, where two signs are touching, rewrite the question and then show the answer

e.g. SET A $12 + - 9 = 12 - 9 = 3$

SET A	SET B	SET C
where the signs are touching re-write the sum	For more complex sums (several parts) – do in stages	where the signs are touching re-write the sum
$12 - 9 = 3$	-25	$-6 \times 4 = -24$
$-6 \times 4 = -24-20$	26	$25 \div 5 = 5$
33	-84	$2 + 8 - 7 = 3$
$-8 + 4 = -4$	24	$20 + 3 = 23$
$32-12 = 20$	$4+ 6 = 10$	(BODMAS) $-2 + 15 = 13$
12	$-4 \times 3 = -12$	+9 and -9
-9	$5 \div 5 = 1$	

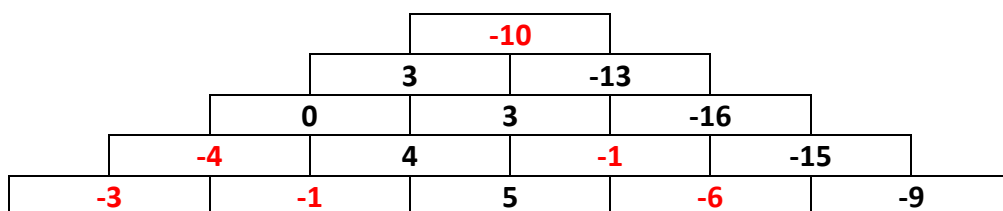
Task 3:

In your book rewrite the following numbers in ascending order (smallest to biggest)

To simplify writing the answer in word I have not included the °C

- a. -8, 0, 3, 9,
- b. -9, -3, -1, 2
- c. -16, -2, 0, 16
- d. -11, -6, -3, -2
- e. -6, -2, 2, 6,

Task 5: Have a go at the questions below:



$$\begin{aligned} -8 + -4 &= -12 \\ -4 + -8 &= -12 \\ -8 - -4 &= -8 + 4 = -4 \\ -4 - -8 &= -4 + 8 = 4 \\ -8 \div -4 &= 2 \\ -4 \div -8 &= \frac{1}{2} \\ -4 \times -8 &= 32 \\ -8 \times -4 &= 32 \end{aligned}$$

$$\begin{aligned} -1 + -1 &= -2 \\ -1 - -1 &= -1 + 1 = 0 \\ -1 \div -1 &= 1 \\ -1 \times -1 &= 1 \end{aligned}$$

Notice the order of the numbers only changes the answer for subtraction and division.

SUM – means and numbers together

PRODUCT – means multiply numbers

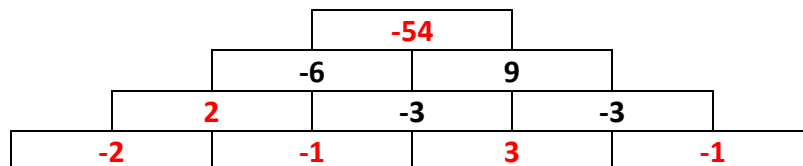
So, for a sum of 2 and a product of -35 the only two numbers are **-5 and +7**

CONSECUTIVE means next to each other

Three consecutive numbers that add to -12 are **-5, -4, and -3**

$$-5 + -4 + -3 = -12$$

Numbers that add to give -7 and Multiply to give 12 are **-4 and -3**



$$(-4)^2 = -4 \times -4 = +16$$

$$-8 \times 2 = -16$$

So $(-4)^2 > -8 \times 2$ That means $(-4)^2$ is greater than -8×2

When answering a question like this you must show the value of each part like I did above.