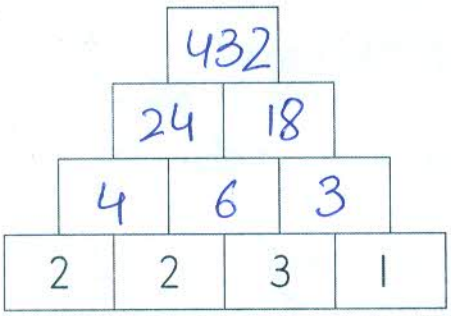
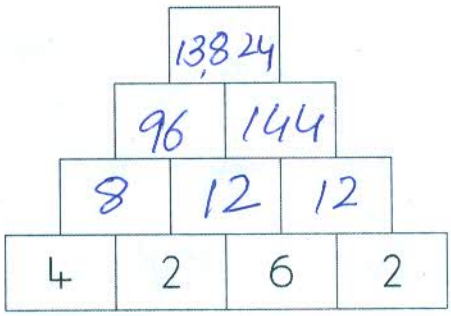
Multiplication of Integers

Q1. Solve the following multiplication pyramid puzzles:





Notebook Task:

Q2. Find the product of the following integers without using number line.

i. (+ 21) and (+ 22)

ii. (-8) and (-15)

iii. (+25) and (-12)

iv. (-35) and (+ 11)

Q3. Find the product of following integers using number line.

i. +4 and -4

ii. 2 and -7

iii. -9 and -3

iv. -3 and +8

Q4. A test has 15 questions. The test awards 3 points if the answer is correct and takes away 1 point if the answer is incorrect. A student answered 3 questions incorrectly. How many points did the student lose?

Q5. The temperature rises 2°c each hour from 6:00 am to 3:00pm. What is the total change in temperature during this period of time.

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Notebook Task

Q.2 Find the product of the following integers without using number line.

i) (+21) and (+22)

$= 21 \times 22$

$= 462$

ii) (-8) and -15)

$= (-8)(-15)$

$= -8 \times -15$

$= +120$

iii) (+25) and (-12)

$= (25)(-12)$

$= 25 \times -12$

$= -300$

iv) (-35) and (+11)

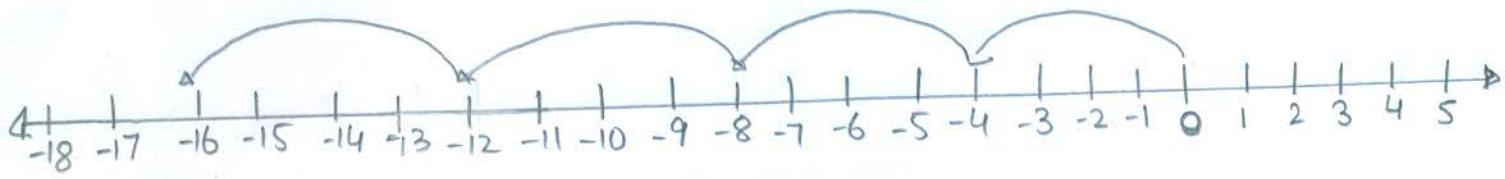
$= (-35)(11)$

$= -35 \times 11$

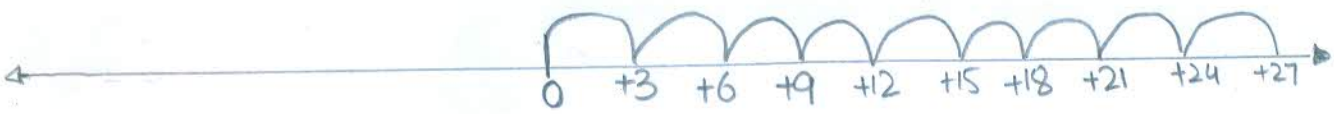
$= -385$

Q.3 Find the product of following integers using number line

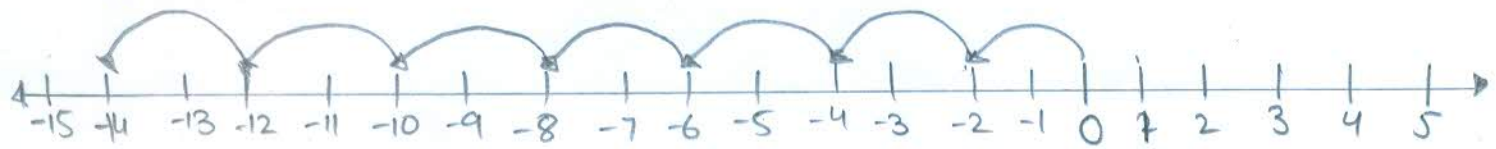
i) +4 and −4 = −16



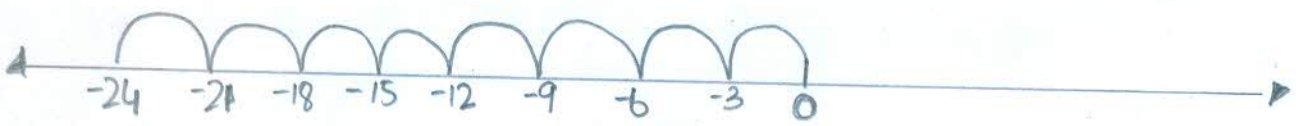
ii) −9 and −3 = +27



iii) 2 and −7 = −14



iv) −3 and +8 = −24



Q4 A test has 15 questions. The test awards 3 points if the answer is correct and takes away 1 point if the answer is incorrect. A student answered 3 questions incorrectly. How many points did the student lose?

$$15 - 3 = 12$$
$$(15-3) \times 3 + 3 = (-1)$$
$$12 \times 3 + (-3)$$
$$36 - 3$$
$$33$$

Q5 The temperature rises 2°C each hour from 6:00am to 3:00pm. What is the total change in temperature during this period of time.

Hours from 6:00am to 3:00pm = 9 hours
Temperature rises 2° each hour = 9×2
Total change in Temperature = 18°C