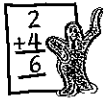


Multiplication of Integers – Solve problems involving integers, including word problems.



Example

Calculate -2×8



To multiply two integers together we multiply as normal, but use the rules below to identify the 'sign' of the answer.

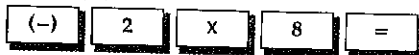
Rules for x

x	+	-
+	+	-
-	-	+

Using the rule in the table

$-2 \times 8 = -16$

By calculator



When multiplying, if the two signs are the same then the answer will be a +. If the two signs are different then the answer will be a -.



Calculate the following integer problems using your calculator if you wish.

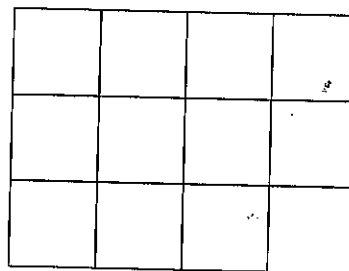
- $-4 \times 3 =$ _____
- $8 \times -5 =$ _____
- $-4 \times -6 =$ _____
- $-3 \times -6 \times -4 =$ _____
- $-8 \times 2 \times -5 =$ _____
- $3 \times -4 \times -7 =$ _____
- $-15 \times 6 \times -2 =$ _____
- $14 \times -7 \times -8 \times -2 =$ _____
- $-13 \times 3 \times -4 \times -3 =$ _____
- $-8 \times -2 \times -3 \times -4 =$ _____



Problem Solving

How many squares of any size can you find in the shape?

Number of squares is _____



Application Problems

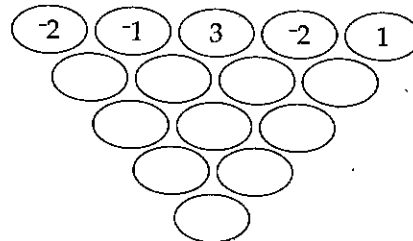
Write questions 11 and 12 as an integer expression and then solve.



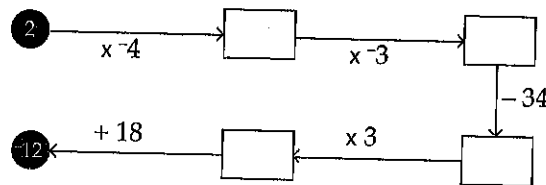
- Andy dives to a depth of 34 metres. His friend dives three times his depth. How deep does the friend dive?

- Adira's spending each month is greater than her income by \$115.00. How much will she be in debt by, after 12 months?

- Find the value in the bottom oval of the triangle. The value in an empty oval is calculated by multiplying the two integers immediately above.

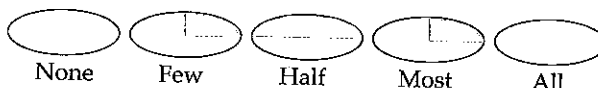


- Starting with the number 2 follow the arrows along the correct path to get to the answer -12. Fill in the correct numbers in the rectangles along the way.



I found this work

Proportion completed



Date: _____