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MULTIPLYING INTEGERS WORKSHEETS

1) $-5 \times 3 = \underline{\quad}$

2) $(-6) \times \underline{\quad} = 36$

3) $(-2) \times 3 \times (-11) = \underline{\quad}$

4) $17 \times (-2) \times \underline{\quad} = 136$

- 5) Fill the following table by multiplying the corresponding integers.

\times	-3	12
-5		
-14		

- 6) Verify the following (distributive property of addition over multiplication).

$$-31 \times [10 + (-5)] = -31 \times 10 + (-31) \times (-5)$$

- 7) The set of integers $\underline{\quad}$

Select all that apply.

- a) is closed under multiplication
- b) is associative under multiplication
- c) is commutative under multiplication
- d) has multiplicative identity

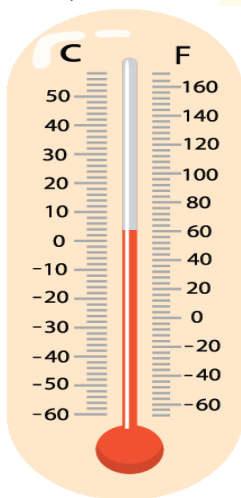
e) has multiplicative inverse for every element in it

8) A test has 30 questions. 4 marks are awarded for every correct answer and -2 mark is awarded for every incorrect answer. A student answered 7 questions incorrectly. How many marks did the student score?



9) Find the product $25 \times (-12) \times 4$ using suitable properties.
Hint: Use commutative property of multiplication.

10) The temperature of a particular place rises by 3°C each hour from 4 AM to 7 AM. What is the total change in temperature in this period?



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

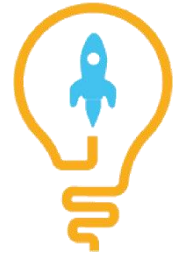
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	-15									
2)	-6									
3)	66									
4)	-4									
5)	<table border="1"><tr><td>\times</td><td>-3</td><td>12</td></tr><tr><td>-5</td><td>15</td><td>-60</td></tr><tr><td>-14</td><td>42</td><td>-168</td></tr></table>	\times	-3	12	-5	15	-60	-14	42	-168
\times	-3	12								
-5	15	-60								
-14	42	-168								
6)	$-31 \times [10 + (-5)] = -155$ $-31 \times 10 + (-31) \times (-5) = -155$ Hence, verified.									
7)	a) b) c) and d)									
8)	78									
9)	-1200									
10)	9°C									

FUN FACT

1. The product of two same signed integers is always positive.
2. The product of two different signed integers is always negative.
3. The multiplicative identity is 1.
4. The multiplicative inverse of a number x is $\frac{1}{x}$.

