How to multiply and divide integer numbers

Rules of multiplication:

Signs of numbers	Example	Conclusion
$(+)\cdot(+)=(+)$	$5\cdot 2=10$	For two integers with equal signs, the result is **positive**
$(-)\cdot(-)=(+)$	$(-5)\cdot(-2)=10$	
$(+)\cdot(-)=(-)$	$5\cdot(-2)=-10$	For two integers with different signs, the result is **negative**
$(-)\cdot(+)=(-)$	$(-5)\cdot 2=-10$	

Rules of division:

Signs of numbers	Example	Conclusion
$(+)\div(+)=(+)$	$10\div 2=5$	For two integers with equal signs, the result is **positive**
$(-)\div(-)=(+)$	$(-10)\div(-2)=5$	
$(+)\div(-)=(-)$	$10\div(-2)=-5$	For two integers with different signs, the result is **negative**
$(-)\div(+)=(-)$	$(-10)\div 2=-5$	

As you can see, the rules of signs for multiplication and division are the same. So, we just need to keep in mind the following conclusions:

- When we multiply or divide two integers with **equal signs**, the result is **positive**.
- When we multiply or divide two integers with **different signs**, the result is **negative**.

Let's practice:

a) $7\cdot 8=$ ☐

b) $(-6)\cdot(-9)=$ ☐

c) $5\cdot(-7)=$ ☐

d) $(-6)\cdot 7=$ ☐

e) $(-8)\cdot(-6)=$ ☐

f) $(-9)\cdot 7=$ ☐

g) $9\cdot 8=$ ☐

h) $5\cdot(-8)=$ ☐

i) $45\div 5=$ ☐

j) $(-42)\div 7=$ ☐

k) $(-48)\div(-6)=$ ☐

l) $72\div(-8)=$ ☐

m) $(-63)\div 9=$ ☐

n) $35\div(-7)=$ ☐

o) $(-54)\div(-9)=$ ☐

p) $(-56)\div 8=$ ☐



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