

# Multiplying and Dividing Negative Numbers

Practice worksheet · KS3 · Years 7 to 9

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Same signs make a positive, different signs make a negative – and it works the same for  $\times$  and  $\div$ . For more than two, count the minus signs: odd is negative, even is positive.

1.  $-6 \times 4$

\_\_\_\_\_

2.  $7 \times (-3)$

\_\_\_\_\_

3.  $-9 \times 5$

\_\_\_\_\_

4.  $-4 \times (-8)$

\_\_\_\_\_

5.  $-7 \times (-7)$

\_\_\_\_\_

6.  $-12 \times (-3)$

\_\_\_\_\_

7.  $-24 \div 6$

\_\_\_\_\_

8.  $40 \div (-5)$

\_\_\_\_\_

9.  $-36 \div (-9)$

\_\_\_\_\_

10.  $-45 \div (-5)$

\_\_\_\_\_

11.  $-8 \times 3 \div (-4)$

\_\_\_\_\_

12.  $-2 \times (-6) \times (-1)$

\_\_\_\_\_

13.  $-4 \times (-2) \times (-3)$

stretch

\_\_\_\_\_

14.  $-5 \times (-2) \times (-2) \times (-1)$

stretch

\_\_\_\_\_

15. A diver descends 6 metres every minute for 5 minutes. What is her depth, as a negative number?  $5 \times (-6)$

stretch

\_\_\_\_\_

16. A submarine at  $-60$  m rises to the surface in equal 5 m steps. How many steps does it take?  $-60 \div (-5)$

stretch

\_\_\_\_\_

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# Answers

Multiplying and dividing negatives · mark it together

1. different signs: negative =  $-24$
2. different signs: negative =  $-21$
3. different signs: negative =  $-45$
4. same signs: positive =  $32$
5. same signs: positive =  $49$
6. same signs: positive =  $36$
7. different signs: negative =  $-4$
8. different signs: negative =  $-8$
9. same signs: positive =  $4$
10. same signs: positive =  $9$
11.  $-24 \div -4 = 6$
12. three minus signs  $\rightarrow$  negative =  $-12$
13. 3 signs, odd  $\rightarrow$  negative;  $4 \times 2 \times 3 = -24$
14. 4 signs, even  $\rightarrow$  positive;  $5 \times 2 \times 2 \times 1 = 20$
15. different signs: negative =  $-30$
16. same signs: positive =  $12$