

Difficulty level: Beginner

1. What is 5 times the vector
 $(6, -1, -3)$?

- ☐ $(30, -6, -15)$
- ☒ $(30, -5, -15)$
- ☐ $(-1, 6, 8)$
- ☐ $(11, 4, 2)$

2. What is 6 times the vector
 $(-6, 2, 3)$?

- ☐ $(12, 4, 3)$
- ☐ $(-36, \frac{1}{3}, 18)$
- ☐ $(0, 8, 9)$
- ☒ $(-36, 12, 18)$

3. $7(-6, -6, 4) = ?$:

- ☐ $(-42, -13, 28)$
- ☒ $(-42, -42, 28)$
- ☐ $(13, 13, 3)$
- ☐ $(1, 1, 11)$

4. What is 6 times the vector
 $(2, -2, 1)$?

- ☐ $(8, 4, 7)$
- ☐ $(12, -12, 1)$
- ☐ $(4, 8, 5)$
- ☒ $(12, -12, 6)$

5. What is 5 times the vector
 $(-3, -3, -5)$?

- ☐ $(-15, -8, -25)$
- ☐ $(8, 8, 10)$
- ☐ $(2, 2, 0)$
- ☒ $(-15, -15, -25)$

6. $4(-2, 1, -4) = ?$:

- ☐ $(6, 3, 8)$
- ☐ $(2, 5, 0)$
- ☒ $(-8, 4, -16)$
- ☐ $(-8, 4, -4)$

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7. $4(-7, 2, 6) = ?$:

☒ **$(-28, 8, 24)$** ☐ $(-7, 8, 24)$ ☐ $(11, 2, -2)$ ☐ $(-3, 6, 10)$

8. What is 5 times the vector $(4, -6, 2)$?

☐ $(20, -30, 2)$ ☐ $(1, 11, 3)$ ☒ **$(20, -30, 10)$** ☐ $(9, -1, 7)$

9. $5(1, -2, -5) = ?$:

☐ $(6, 3, 0)$ ☒ **$(5, -10, -25)$** ☐ $(4, 7, 10)$ ☐ $(5, -10, -5)$

10. $-7(-3, 7, -7) = ?$:

☐ $(21, -1, 49)$ ☐ $(-10, 0, -14)$ ☒ **$(21, -49, 49)$** ☐ $(-4, -14, 0)$

11. $-7(-1, -3, 6) = ?$:

☐ $(7, \frac{3}{7}, -42)$ ☐ $(-6, -4, -13)$ ☒ **$(7, 21, -42)$** ☐ $(-8, -10, -1)$

12. What is 5 times the vector $(-3, 7, 4)$?

☐ $(2, 12, 9)$ ☐ $(-15, 2, 20)$ ☐ $(8, -2, 1)$ ☒ **$(-15, 35, 20)$**

13. $7(-5, 1, 7) = ?$:

☐ $(12, 6, 0)$ ☐ $(2, 8, 14)$ ☒ **$(-35, 7, 49)$** ☐ $(-5, 7, 49)$

14. $6(4, -5, 6) = ?$:

☐ $(2, 11, 0)$ ☐ $(4, -30, 36)$ ☐ $(10, 1, 12)$ ☒ **$(24, -30, 36)$**

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15. What is 6 times the vector
(5, -6, 5)?

- ☐ (30, -12, 30)
- ☐ (11, 0, 11)
- ☐ (1, 12, 1)
- ☒ (30, -36, 30)

16. What is 3 times the vector
(-3, -2, -4)?

- ☐ (6, 5, 7)
- ☐ (0, 1, -1)
- ☒ (-9, -6, -12)
- ☐ (-9, -6, -4)

17. $-4(-5, 2, -3) = ?$:

- ☐ (1, -6, -1)
- ☐ (-9, -2, -7)
- ☒ (20, -8, 12)
- ☐ (20, 6, 12)

18. What is -3 times the vector
(1, -4, -5)?

- ☐ (-4, 1, 2)
- ☐ (1, 12, 15)
- ☒ (-3, 12, 15)
- ☐ (-2, -7, -8)

19. $-5(5, 4, 7) = ?$:

- ☒ (-25, -20, -35)
- ☐ (-25, -20, 7)
- ☐ (0, -1, 2)
- ☐ (-10, -9, -12)

20. $-6(2, 6, -6) = ?$:

- ☐ (-4, 0, -12)
- ☐ (-8, -12, 0)
- ☐ (-12, -1, 36)
- ☒ (-12, -36, 36)