Translate complex expressions and sentences with variables from descriptions
Worksheet

Name: _____

Date: _____ Period: _____

1. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number increased by 9, all times 6

   ○ $6\left(n+9\right)$ ○ $\frac{n-9}{6}$

   ○ $6n+9$ ○ $9\left(n+6\right)$

2. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number over 4 added to 2

   ○ $\frac{n}{2}+4$ ○ $\frac{n+2}{4}$

   ○ $4n-2$ ○ $\frac{n}{4}+2$

3. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number increased by 4, all over 2

   ○ $\frac{n+4}{2}$ ○ $2\left(n-4\right)$

   ○ $\frac{n+2}{4}$ ○ $\frac{n}{2}+4$

4. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number times 8 plus 3

   ○ $8n+3$ ○ $\frac{n}{8}-3$

   ○ $3n+8$ ○ $8\left(n+3\right)$

5. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number decreased by 4, all divided by 3

   ○ $\frac{n-3}{4}$ ○ $\frac{n}{3}-4$

   ○ $3\left(n+4\right)$ ○ $\frac{n-4}{3}$

6. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number over 4 plus 9

   ○ $\frac{n+9}{4}$ ○ $4n-9$

   ○ $\frac{n}{9}+4$ ○ $\frac{n}{4}+9$

7. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number over 5 added to 2

   ○ $5n-2$ ○ $\frac{n+2}{5}$

   ○ $\frac{n}{5}+2$ ○ $\frac{n}{2}+5$

8. Translate the following verbal expression into an algebraic expression. Use the variable n.

   A number multiplied by 5 minus 6

   ○ $6n-5$ ○ $5n-6$

   ○ $5\left(n-6\right)$ ○ $\frac{n}{5}+6$

9. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number subtracted by 2, all times 10

○ $\frac{n+2}{10}$ ○ $10n - 2$

○ $2(n - 10)$ ○ $10(n - 2)$

10. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number multiplied by 10 plus 2

○ $2n + 10$ ○ $10n + 2$

○ $10(n + 2)$ ○ $\frac{n}{10} - 2$

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11. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number subtracted by 7, all times 3

12. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number divided by 2 added to 6

13. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number times 5 decreased by 7

14. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number divided by 4 decreased by 3

15. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number multiplied by 8 increased by 10

16. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number divided by 2 plus 10

17. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number increased by 2, all divided by 7

18. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number added to 8, all divided by 4

19. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number decreased by 4, all multiplied by 6

20. Translate the following verbal expression into an algebraic expression. Use the variable n.

A number added to 5, all multiplied by 8

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