PRAC ~ TIS Math

MENU Grade 9

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2.	Grade 9 Add and Subtract Unknowns	b3A
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Grade 9
Evaluate and Simplify

Name: _____ **Date:** _____

S/N: 599

Write an equivalent expression using the Commutative or Associative Property.

1. $e + 32$

2. $k + 12$

3. $(i + z) + 35$

4. $(d + z) + 31$

Use front-end estimation to estimate the value of the variable.

5. $837 + 914 + 797 = q$

6. $651 + 340 + 181 = t$

7. Mr. and Mrs. Robinson are driving to Buffalo and their entire trip is 1,597 miles. The odometer shows they have traveled 801 miles. About how many miles are they from Buffalo? Round to the nearest hundred.

8. Mr. and Mrs. Johnson are driving to Boston and their entire trip is 1,164 miles. The odometer shows they have traveled 642 miles. About how many miles are they from Boston? Round to the nearest hundred.

9. On Thursday, Bob shipped 50 more orders for his mail-order company. He has now shipped 508 orders for the month. How many orders had he shipped before Thursday?

10. On Thursday, Bob shipped 92 more orders for his mail-order company. He has now shipped 278 orders for the month. How many orders had he shipped before Thursday?

Evaluate

11. $\frac{e + 28}{y}$ for $e = 7$ and $y = 11$

12. $\frac{g + 27}{x}$ for $g = 13$ and $x = 6$

Simplify

13. $48 + 21 \cdot 46 + 27$

14. $11 + 41 \cdot 46 + 27$

Write an algebraic expression.

15. 27 less than one-fourth a number

16. 21 less than one-eighth a number

17. 25 times the sum of a number and 26

18. 56 times the sum of a number and 82

19. 55 times the sum of a number and 76

20. 46 times the sum of a number and 80

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

Grade 9
Evaluate and Simplify

Teacher Key **S/N: 599** **TEKS -b4B, b3A**

1. $e + 32$
$\mathbf{32 + e}$

2. $k + 12$
$\mathbf{12 + k}$

3. $(i + z) + 35$
$\mathbf{i + (z + 35)}$

4. $(d + z) + 31$
$\mathbf{d + (z + 31)}$

5. $837 + 914 + 797 = q$
$\mathbf{800 + 900 + 800 = q}$
$\mathbf{q = 2{,}500}$

6. $651 + 340 + 181 = t$
$\mathbf{700 + 300 + 200 = t}$
$\mathbf{t = 1{,}200}$

7. $1{,}597 - 801$
$\mathbf{1{,}600 - 800}$
about 800 miles

8. $1{,}164 - 642$
$\mathbf{1{,}200 - 600}$
about 600 miles

9. $508 - 50$
458 shipped before

10. $278 - 92$
186 shipped before

11. $\frac{e + 28}{y}$ for $e = 7$ and $y = 11$

$\frac{7 + 28}{11} = \frac{35}{11}$

$\mathbf{= 3.2}$

12. $\frac{g + 27}{x}$ for $g = 13$ and $x = 6$

$\frac{13 + 27}{6} = \frac{40}{6}$

$\mathbf{= 6.7}$

13. $48 + 21 \cdot 46 + 27$
$\mathbf{48 + 966 + 27}$
$\mathbf{= 1{,}041}$

14. $11 + 41 \cdot 46 + 27$
$\mathbf{11 + 1{,}886 + 27}$
$\mathbf{= 1{,}924}$

15. $\mathbf{\frac{1}{4}n - 27}$

16. $\mathbf{\frac{1}{8}n - 21}$

17. $\mathbf{25(n + 26)}$

18. $\mathbf{56(n + 82)}$

19. $\mathbf{55(n + 76)}$

20. $\mathbf{46(n + 80)}$

Grade 9
Expressions/Powers/Equations

Name: _____ **Date:** _____

S/N: 145

Write an algebraic expression.

1.	eight times the number	*z*	**1.**
2.	four times the number	*b*	**2.**
3.	nine times the number	*a*	**3.**
4.	two times the number	*l*	**4.**
5.	nine times the number	*c*	**5.**

Write as a numerical expression

6.	15	less than	76	**6.**
7.	55	increased by	19	**7.**
8.	71	increased by	75	**8.**
9.	60	increased by	65	**9.**
10.	32	less than	68	**10.**

Solve and check.

11.	24 *n*	=	336	**11.**
12.	15 *q*	=	255	**12.**
13.	11 *g*	=	77	**13.**
14.	16 *b*	=	32	**14.**
15.	21 *d*	=	84	**15.**

Simplify.

16.	22	.	68	**16.**
17.	55	.	49	**17.**
18.	98	.	64	**18.**
19.	79	.	212	**19.**
20.	108	.	27	**20.**

Grade 9
Expressions/Powers/Equations

Teacher Key

S/N: 145 **TEKS -b3A, b4A**

Write an algebraic expression.

1. $8z$
2. $4b$
3. $9a$
4. $2l$
5. $9c$

Write as a numerical expression

6. $76 - 15 = 61$
7. $55 + 19 = 74$
8. $71 + 75 = 146$
9. $60 + 65 = 125$
10. $68 - 32 = 36$

Solve and check.

11. $n = 14$
12. $q = 17$
13. $g = 7$
14. $b = 2$
15. $d = 4$

Simplify.

16. $4 \cdot 1{,}679{,}616 = 6{,}718{,}464$
17. $3{,}125 \cdot 262{,}144 = 819{,}200{,}000$
18. $43{,}046{,}721 \cdot 1{,}296 = 55{,}788{,}550{,}416$
19. $40{,}353{,}607 \cdot 4{,}096 = 165{,}288{,}374{,}272$
20. $100{,}000{,}000 \cdot 128 = 12{,}800{,}000{,}000$