A KEY TO THE COMMON SCHOOL ALGEBRA

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A Key to the Common School Algebra by Thomas Sherwin

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THOMAS SHERWIN

A KEY TO THE COMMON SCHOOL ALGEBRA



KEY

TO THE

COMMON SCHOOL ALGEBRA.

BY

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KEY

TO THE

COMMON SCHOOL ALGEBRA.

PRELIMINARY EXERCISES.

ART. 4. 1. Performed.

- 2. 4x, 6x, 9x, 11x.
- 3. 3x, 5x, 7x, 10x, 15x, 30x.
- 4. 2x, 7x, 9x, 18x, 20x.
- 5. 4 x, 6 x, 8 x, 10 x, 12 x, 14 x, 16 x, 18 x, 20 x.
- 6. 6x, 15x, 18x, 24x, 30x, 36x.
- 7. 12 x, 24 x, 48 x, 52 x.
- 8. 10 x, 15 x, 20 x, 35 x, 45 x, 75 x.
- 9. Performed.
- 10. 9 x, 18 x, 27 x, 36 x, 45 x, 54 x.
- 11. 10 x, 20 x, 30 x, 50 x, 70 x, 110 x.
- 12. 6x, 9x, 12x, 15x, 18x.
- 13. 10 x, 12 x, 14 x, 16 x, 18 x, 20 x.
- 14. 6 x, 12 x, 20 x, 42 x, 56 x.
- 15. 3 x, 8 x, 30 c.
- 16. 12x, 18x, 24x, 30x, 36x, 42x; and 30x, 50x, 70x, 110x, 130x.
 - 17. 14 x, 24 x, 50 x, 72 x.
 - 18. 4 x, 10 x, 18 x, 63 x, shillings.
 - 19. 10 x.
 - 20. 8 x. 30 x.

ART. 5. 1. Performed.

2.
$$3z + 4z$$
.

3.
$$x+2x+3x$$
.

4.
$$3x+4x+5x+6x$$
.

5.
$$2x + 3x$$
.

6.
$$4x + 6x + 8x$$

7.
$$15x + 54x$$
.

8.
$$x+3x+4x$$

9.
$$9x + 12x + 15x$$
.

10.
$$x+2x+4x$$
.

11.
$$6x+3x+x$$
.

12.
$$x+2z+6z+8x$$

13.
$$x + y$$
.

14.
$$3x + 7y$$
.

15.
$$21x + 10y$$
.

16.
$$x+y+2x+3y$$
.

17.
$$3x + 4x$$
.

18.
$$2x+2y$$
, $3x+3y$, $5x+5y$, $7x+7y$.

ART. 6. I. Performed.

14.
$$2x+2x$$
, $8x+4x$, $12x+10x$, $18x+28x$.

15.
$$6x + 10x$$
, $16x + 14x$, $34x + 40x$.

16.
$$3x + 12x$$
, $9x + 14x$.

17.
$$2x+2y$$
, $4x+4y$, $6x+6y$, $8x+8y$, $10x+10y$.

ART. 7. 1st and 2d, performed.

$$3. x + 12.$$

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5. Performed.

6.
$$x+3$$
, $x+3+3$, $x+3+3+3$.

7. Black,
$$x+4$$
; blue, $x+4+5$.

9. B's,
$$z + 10$$
; A's, $z + 10 + 5$.

10.
$$2x + 100$$
.

12. B's,
$$2x$$
; C's, $4x+2$.

13.
$$3x+5$$
 cows; $x+3x+5$ sheep; aggregate, $x+3x+5+x+3x+5$.

14.
$$6z+4$$
; $12z+7$; $15z+10$.

15.
$$2x+3$$
; $3x+10$; $4x+7$.

.16.
$$x+2$$
; $3x+4$; $6x+9$; $7x+10$.

17.
$$x+x+4+x+4+2$$
.

18. B,
$$x+4$$
; C, $x+4+5$.

19.
$$x+100+2x+150+3x+70$$
.

ART. S. 1. Performed.

3.
$$x-4$$
.

13. A's,
$$3x+10$$
; B's, $2y-10$.

14.
$$100-2x$$
, larger; $75+2x$, smaller.

16.
$$x-4$$
 turkeys; $y+15$ geese.

2.
$$x+6$$
; $x-6$; $2x-4$; $2x-4$; $5x+2$; $5x-2$.

3.
$$4x-3$$
; $7x+6$; $12x-5$.

4.
$$9x+5$$
; $10x+6$; $8x-3$; $11-6x$; $13-8x$. 5th, 6th, and 7th, performed.

9.
$$3x + 10$$
.

ART. 10. 1st and 2d, performed.

3.
$$10z+10$$
.

5.
$$40x+25$$
; $140-21x$; $27x+9y-45$.

10.
$$425 + x$$
.

ART. 11. 1. z+2.

2.
$$x+5$$
; $x-6$.

4. A,
$$2x-25$$
; B, $2x+125$.

6.
$$x+5$$
; $7x+35$.

8.
$$z+15$$
.

ART. 19. I. Performed.

2.
$$\frac{x}{2}$$
; $\frac{x}{3}$; $\frac{x}{8}$.

3. Performed.

4.
$$\frac{2z}{3}$$
.

5.
$$x + \frac{x}{2} + 5$$
.

6.
$$\frac{x}{3} + \frac{x}{2} - 5$$
.

7.
$$\frac{3x}{4}$$
 - 5; $\frac{3x}{4}$ + 10.

ART. 13. 1. Performed.

$$\frac{3x-4}{2}$$
.

3.
$$\frac{10-x}{3}$$
.

4.
$$\frac{x+y-10}{4}$$
.

5.
$$\frac{x-2y+5}{5}$$
.

6.
$$\frac{2x+5}{2}$$

7. A,
$$\frac{x-5}{2}$$
; B, $\frac{x+5}{2}$.

8.
$$\frac{2x-20}{3}$$
.

9. Performed.

10.
$$\frac{x+100}{5}$$
 - 6.

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