

Home Instruction Packet for Algebra 1B

Name of teacher: Ms. Dowling

In this packet are materials and directions to complete 7.1-7.4 Review. The entire packet will be collected when we return to school. However, you must also email me a screenshot of each week's completed worksheets on Friday by 2:50, and I will email you back with the answer key to check your work. This is how you will receive credit while we are not in school. You must show your work in order to receive credit. All work will be graded and counted 10% towards your marking period grade.

I am available to support you during the hours 7:50am-2:50 pm to answer any of your questions. I will be responding to your emails within the hour.

You contact me at: kdowling@rpsd.org

| Lesson: Title, Objective | Assignment directions and how the assignments will be collected. |
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| <p><u>Week 1:</u></p> <p>Lesson 1: SWBAT simplify expressions involving zero and negative exponents.</p> | <p>Complete 7.1 Review 1. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 2: SWBAT simplify expressions involving zero and negative exponents.</p> | <p>Complete 7.1 Review 2. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 3: SWBAT simplify expressions involving zero and negative exponents.</p> | <p>Complete 7.1 Review 3. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> <p>****By Friday at 2:50, email me at kdowling@rpsd.org with screenshots of 7.1 Reviews 1, 2, and 3 in order to receive credit.</p> <p>I will email you back with the answer key.</p> |

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| <p><u>Week 2:</u></p> <p>Lesson 1: SWBAT multiply powers with the same base.</p> | <p>Complete 7.3 Review 1. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 2: SWBAT multiply powers with the same base.</p> | <p>Complete 7.3 Review 2. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 3: SWBAT multiply powers with the same base.</p> | <p>Complete 7.3 Review 3. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> <p>****By Friday at 2:50, email me at kdowling@rpsd.org with screenshots of 7.3 Reviews 1, 2, and 3 in order to receive credit.</p> <p>I will email you back with the answer key.</p> |
| <p><u>Week 3:</u></p> <p>Lesson 1: SWBAT raise a power to a power and raise a product to a power.</p> | <p>Complete 7.4 Review 1. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 2: SWBAT raise a power to a power and raise a product to a power.</p> | <p>Complete 7.4 Review 2. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> |
| <p>Lesson 3: SWBAT raise a power to a power and raise a product to a power.</p> | <p>Complete 7.4 Review 3. You must show all your work in order to receive credit. This packet will be collected when we return to school.</p> <p>****By Friday at 2:50, email me at kdowling@rpsd.org with screenshots of 7.4 Reviews 1, 2, and 3 in order to receive credit.</p> <p>I will email you back with the answer key.</p> |

Algebra 1B

Ms. Dowling

7.1-7.4 Review

7.1 Review 1

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) 3^3

2) 4^{-2}

3) 2^{-2}

4) $(-4)^2$

5) $(-4)^{-4}$

6) $-u^4v^{-2}$

7) $x^{-1}y^2$

8) $3x^{-3}y^2$

$$9) 2m^{-2}n^{-1}$$

$$10) -3u^{-4}v^3$$

$$11) 2x^{-1}y^3$$

$$12) 2x^3y^{-2}$$

$$13) -4y^{-3}$$

$$14) m^3n^{-2}$$

$$15) -2x^{-1}$$

$$16) -x^4y^{-4}$$

$$17) 2x^{-1}y^{-4}$$

$$18) -3y^{-3}$$

$$19) -x^{-1}y^{-3}$$

$$20) 2u^{-3}v^{-3}$$

$$21) -3a^{-1}b^4$$

$$22) 4x^{-2}y^{-1}$$

$$23) x^{-1}y^3$$

$$24) -3ba^{-2}$$

$$25) -2u^{-4}$$

7.1 Review 2

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) 3^{-3}

2) 4^4

3) $(-2)^2$

4) $(-2)^{-3}$

5) 2^4

6) $u^{-1}v^0$

7) $-2uv^{-1}$

8) $2u^{-3}v^{-3}$

$$9) 4x^3y^{-3}$$

$$10) 2yx^{-3}$$

$$11) -4yx^{-4}$$

$$12) -x^{-3}y^2$$

$$13) 3m^{-2}n^{-4}$$

$$14) 3u^{-4}v^4$$

$$15) 3xy^{-2}$$

$$16) -2x^{-1}y^{-2}$$

$$17) -3m^{-1}n^{-4}$$

$$18) -4x^3y^{-3}$$

$$19) -2u^{-1}v^{-4}$$

$$20) 4u^{-4}v^3$$

$$21) v^{-2}$$

$$22) -x^0y^{-4}$$

$$23) -2a^{-2}$$

$$24) 2x^{-4}y^2$$

$$25) -x^{-4}y^{-4}$$

7.1 Review 3

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) 2^{-1}

2) $(-2)^2$

3) $(-4)^3$

4) $(-4)^2$

5) 3^0

6) $m^{-1}n^3$

7) $-3a^0b^{-2}$

8) $4x^3y^{-4}$

$$9) a^{-3}b^{-4}$$

$$10) 4x^{-4}y^4$$

$$11) -v^{-3}$$

$$12) -3x^{-2}y^4$$

$$13) x^0y^{-4}$$

$$14) 4b^{-2}$$

$$15) 4yx^{-1}$$

$$16) 4y^{-1}$$

$$17) -a^4b^{-3}$$

$$18) -3x^2y^{-2}$$

$$19) -3x^2y^{-4}$$

$$20) -4x^{-2}y^{-2}$$

$$21) x^{-2}y^4$$

$$22) 2y^{-1}$$

$$23) -2xy^{-3}$$

$$24) -4yx^{-4}$$

$$25) 2m^2n^{-1}$$

7.3 Review 1

Date _____ Period _____

Rewrite the expression using each base only once.

1) $(-4)^4 \cdot (-4)^2$

2) $3^{-1} \cdot 3^2$

3) $(-2)^2 \cdot (-2)^4$

4) $(-4)^3 \cdot (-4)^2$

5) $2^{-2} \cdot 2^0$

6) $3^2 \cdot 3^3 \cdot 3^3$

7) $2 \cdot 2^3$

8) $2^{-1} \cdot 2^{-1}$

9) $(-4)^2 \cdot (-4)^{-3}$

10) $2 \cdot 2^0$

11) $-4 \cdot (-4)^{-4}$

12) $-3 \cdot (-3)^4$

Simplify each expression.

13) $4x^2y^0 \cdot 2x^2y^{-3}$

14) $a^{-4}b^2 \cdot a^3b^3$

15) $4m^2n^0 \cdot 4m^3$

16) $2v^2 \cdot 4u^{-1}v^{-1}$

17) $3ba^{-3} \cdot 2a^2b^4 \cdot 4a^{-4}b^4$

18) $xy^2 \cdot yx^3$

19) $4m^3n^4 \cdot m^2n^3$

20) $2ba^3 \cdot 2ba^2 \cdot 2b^2$

21) $2x^4y^3 \cdot x^3y^0$

22) $4m^{-3}n^4 \cdot n^{-4}$

$$23) 2xy^4 \cdot 4x^3y^{-1} \cdot x^{-3}y^4$$

$$24) x^4 \cdot x^4y^{-1} \cdot x^3y^4$$

$$25) 4m^2n^2 \cdot 3n^3$$

7.3 Review 2

Date _____ Period _____

Rewrite the expression using each base only once.

1) $4 \cdot 4^2$

2) $3^4 \cdot 3^3$

3) $3^{-1} \cdot 3^{-3}$

4) $(-3)^2 \cdot (-3)^3$

5) $4^{-2} \cdot 4^{-2}$

6) $-3 \cdot (-3)^{-4}$

7) $(-4)^2 \cdot (-4)^{-2}$

8) $3^0 \cdot 3^0$

9) $2 \cdot 2^4$

10) $(-4)^{-3} \cdot (-4)^4$

11) $2^{-3} \cdot 2^4$

12) $(-2)^{-2} \cdot (-2)^{-2}$

Simplify each expression.

13) $4yx^3 \cdot 3x^2y^{-2}$

14) $3ab^{-1} \cdot a^{-3}$

15) $2xy^0 \cdot 3x^3$

16) $3m^3n^{-1} \cdot m^{-3}n^{-1}$

17) $3yx^0 \cdot 4y^3$

18) $2x^4 \cdot 3x^4y^4$

19) $4b^{-2} \cdot 3b^{-1}$

20) $4y^{-2} \cdot x^3$

21) $x^4y^{-1} \cdot 4x^4y^2$

22) $3u^{-3}v^3 \cdot 3vu^0 \cdot 2uv^0$

$$23) 3u^{-2}v^4 \cdot 3u^4v^{-2}$$

$$24) 4b \cdot 3a^0b^2$$

$$25) 2m^4n^4 \cdot 2m^{-4}$$

7.3 Review 3

Date _____ Period _____

Rewrite the expression using each base only once.

1) $-2 \cdot (-2)^4$

2) $(-3)^3 \cdot (-3)^{-3}$

3) $(-4)^{-3} \cdot (-4)^2$

4) $2^4 \cdot 2^0$

5) $2^2 \cdot 2^0$

6) $(-3)^2 \cdot (-3)^{-1}$

7) $2^{-4} \cdot 2^4$

8) $(-4)^0 \cdot (-4)^{-1}$

9) $4^3 \cdot 4^2$

10) $4^2 \cdot 4^{-3}$

11) $3^{-1} \cdot 3^3 \cdot 3^{-4}$

12) $4^{-2} \cdot 4^2$

Simplify each expression.

13) $3u^2v^0 \cdot u^{-1}$

14) $ab \cdot 3a^4b^0$

15) $2ab^2 \cdot 4a^{-1}$

16) $2x^4 \cdot 3x^0y^{-3}$

17) $3u^{-3}v^{-2} \cdot 2v^2$

18) $4x^3 \cdot 3x^{-1}$

19) $b^3 \cdot 3a^3b^4$

20) $3x^2y^{-4} \cdot 4x^0$

21) $a^{-1}b^{-3} \cdot 2a^{-2}$

22) $2a^{-4}b^2 \cdot a^0b^3$

$$23) 2ab^{-3} \cdot 2ab^2$$

$$24) 4x^4y^2 \cdot 3x^{-4}y^4$$

$$25) y^2x^{-3}$$

7.4 Review 1

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $(3p^3)^4$

2) $(3x)^3$

3) x^{-1}

4) $(2x^2)^2$

5) $(4m^{-4})^3$

6) $(-3x^4y^0)^{-2}$

7) $(xy)^{-3}$

8) $(-2yx^0)^{-2}$

9) $(mn^2)^0$

10) $(-4xy^2)^2$

11) $(-x^4)^2$

12) $(-2a^{-1}b^3c^2)^{-2}$

13) $(-a^{-2}b^{-1})^{-2}$

14) $(-3m^3p^4)^{-3}$

15) $(4mnp)^2$

16) $2v^3 \cdot (v^2)^{-1}$

17) $(x^0)^3 \cdot 2x$

18) $(x^3 \cdot 2x^{-1})^0$

19) $(2r^{-4} \cdot -r^2)^4$

20) $-a^{-3} \cdot (a^4)^{-3}$

21) $(-2x^{-4}y^2 \cdot x^{-2})^4$

22) $a^2b^3 \cdot 2b^2 \cdot (-a^0)^3$

23) $-x^3y^4 \cdot (-x^{-2}y^3)^{-1}$

24) $(-2m^{-2}n^3)^2 \cdot m^{-4}$

25) $((-yx^{-3})^2 \cdot xy^2)^0$

7.4 Review 2

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $(-m^4)^2$

2) $(-3v^3)^2$

3) $(a^{-4})^{-2}$

4) $(-3x^4)^4$

5) $(n^3)^2$

6) $(3m^2)^4$

7) $(-4x^0y^3)^4$

8) $(2x^0)^2$

9) $(3x^2y^{-4})^{-3}$

10) $(-4vu^0)^4$

11) $(3a^{-2}b^{-2}c^2)^4$

12) $(-3zx^4)^{-3}$

13) $(-2x^{-3}z^0)^3$

14) $(3x^2z^{-1})^3$

15) $(-3x^2y^2z^4)^4$

16) $(-m^{-4})^{-4} \cdot -m^3$

17) $(-2x^{-4} \cdot 2x^3)^2$

18) $(-v^4 \cdot 2v^{-1})^2$

19) $-a^4 \cdot 2a \cdot (-a^2)^4$

20) $(2v^0 \cdot (2v^3)^2)^4$

21) $2u^{-2}v^3 \cdot (2v^4)^4$

22) $(-2b^{-1} \cdot 2a^3b^0)^0$

23) $-2x^{-3}y^3 \cdot (y^2)^2$

24) $-2x^4 \cdot (-2xy^{-2})^3$

25) $-2yx^2 \cdot (-x^2y^2)^{-3}$

7.4 Review 3

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $(2v^{-1})^4$

2) $(x^3)^{-2}$

3) $(4n^3)^3$

4) $(2x)^2$

5) $(2x^2)^{-2}$

6) $(x^3)^0$

7) $(2a^{-1}b^3)^4$

8) $(-4m^{-1}n^{-4})^{-4}$

9) $(-2x^{-1}y^0)^{-1}$

10) $(4u^{-1}v^4)^{-3}$

11) $(-nm^2p^4)^0$

12) $(3h^3j^{-4}k^0)^2$

13) $(4pm^{-2}n^{-4})^{-2}$

14) $(-3yx^2z^{-4})^4$

15) $(4p^3q^{-4})^2$

16) $(-2n^{-1} \cdot (n^3)^{-3})^0$

17) $((m^{-1})^{-2} \cdot 2m^4)^{-3}$

18) $(2b^{-4} \cdot b^{-2})^{-3}$

19) $(-2a^4 \cdot -2a^{-1})^{-4}$

20) $(-2x^{-4})^{-4} \cdot x^{-3}$

21) $2x^{-1} \cdot x^{-1}$

22) $(2x^3)^2 \cdot (-x^{-1}y^{-2})^0$

23) $(2x^0)^{-1} \cdot -x^4y^3$

24) $(-xy)^{-1} \cdot -y^{-3}$

25) $x^{-2}y^0 \cdot (-2y^2)^2$