EPCS

65 W. Demarest Avenue Englewood, NJ 07631 2024 - 2025 8th Grade Preparation Packet

Welcome to 8th Grade Mathematics! Our 8th Grade Mathematics Course is a comprehensive course that will provide you with the fundamental tools of mathematical understanding that will support you in future math courses. Since you will be taking 8th Grade Mathematics after successful completion of 7th Grade Mathematics, this preparation packet contains review material of the 7th grade concepts, skills, and procedures that should be mastered **BEFORE** entering 8th grade in the fall. Essentially, the packet provides a review of the major 7th grade topics as well as a preview of the 8th grade topics.

Here are some websites you might find particularly useful:

- iReady.com
- http://www.khanacademy.org/
- www.ixl.com/math/
- www.brainpop.com
- www.geogebra.org
- www.math-aids.com
- www.jeopardylabs.com
- www.kutasoftware.com

This collection of problems will identify those concepts you have mastered as well as those you will need to practice and review. You are expected to seek extra help immediately on those concepts with which you have not demonstrated proficiency. Be resourceful - use the online resources.

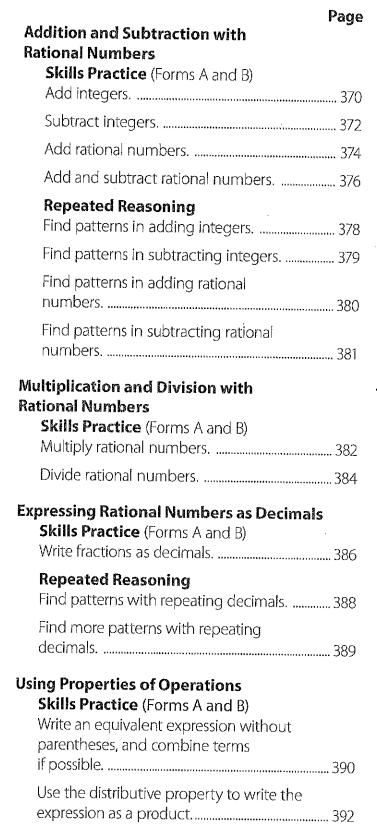
*** Solve these problems without the use of a calculator and show all work.***

You will be responsible for handing in the completed packet with all work shown on the first day of school. The problems here are very representative of the types of items you will need to have mastered BEFORE 8th Grade Math... so we strongly encourage you to include this packet in your summer festivities! Good luck and enjoy!

Name:		Parent Signature: _	 		
	8th Grade Preparation	n Packet Score:	/50		

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Additionand Subtration With Rational Numbers—Skills Pactice

Name:

Form A

Add integers.

$$4 15 + (-7) + (-3) = \underline{\hspace{1cm}}$$

$$11 -17 + 14 + 7 + 10 =$$

$$-8 + 14 + (-2) + 6 =$$

Additionand Subjection with Rational Numbers—Stills Pacific

Name: ____

Subtract integers.

$$\boxed{6}$$
 -13 - (-7) = ____

10
$$-4 - 8 - 16 =$$

$$-8 - 15 =$$

$$4 - 17 - (-6) - 3 =$$

$$-46 - 21 =$$

15
$$41 - (-13) - 21 =$$

$$21 30 - (-15) - 40 =$$

Accinomand Subjection with Rational Numbers—Skills Practice

Name:

Add rational numbers.

$$-5 + \frac{1}{4} =$$

4 9 + (-10.2) = _____ 5
$$-\frac{1}{8}$$
 + $\left(-\frac{7}{8}\right)$ = _____ 6 $-\frac{5}{8}$ + $\left(-\frac{1}{8}\right)$ + $\frac{3}{4}$ = _____

7 15.4 + (-16) = ______ 8
$$-1\frac{2}{5} + \frac{4}{5} = ______$$

9
$$-8 + \left(-3\frac{1}{2}\right) =$$

$$10 -18.04 + 7.9 =$$

11 -11 + (-4.25) = ____ 12
$$-\frac{5}{6}$$
 + $\left(-\frac{5}{6}\right)$ = ____

$$\frac{2}{3} + \left(-\frac{1}{3}\right) =$$

15
$$1\frac{3}{4} + \left(-\frac{1}{2}\right) + \left(-\frac{1}{4}\right) = \underline{\hspace{1cm}}$$

$$77 - 8.9 + (-7.2) + 18.9 = _____$$

$$-4.2 + (-3.7) =$$

19
$$3.5 + (-13.5) + (-5.6) =$$

20
$$-3\frac{1}{6} + (-8) =$$

Addition and Subtraction with Rational Numbers—Skills Practice

Name: _____

Add and subtract rational numbers.

$$4\frac{3}{4} - \left(-2\frac{1}{4}\right) = 2 -16.5 - 11 = 2 -16.5$$

$$\frac{1}{5} - \left(-\frac{4}{5}\right) =$$

4
$$7.75 - 14.25 =$$
 5 $-8\frac{1}{3} - (-4) =$ **6** $-15.7 - (-16.2) =$ _____

8
$$6\frac{5}{6} - 9\frac{1}{6} =$$
 9 $6.2 - (-6.8) =$ **9**

$$-12.6 + 4.2 - (-2.6) =$$

15
$$-6.5 + 11 - (-6.5) =$$

$$\frac{1}{6} - (-7) + 3 - \left(-\frac{5}{6}\right) = \underline{\hspace{1cm}}$$

$$17 \ \frac{1}{4} - 1\frac{3}{4} + 2\frac{3}{4} - \left(-2\frac{3}{4}\right) = \underline{}$$

$$6.1 - 6 - (-6.1) + 16 =$$

19 1.25 - 2.75 - (-3.75) + (-7.25) = _____ 20
$$8\frac{1}{5} - \frac{3}{5} + \left(-\frac{4}{5}\right) - \left(-1\frac{2}{5}\right) = _____$$

Addition and Subtraction with Rational Numbers - Repeated Reasoning

Name: _______

Find patterns in adding integers.

Set A

$$-6 + (-48) + 6 =$$

$$7 - 36 + (-48) + 36 =$$

$$-36 + (-148) + 36 =$$

Set B

$$11 -6 + (-48) + 16 =$$

$$4 - 6 + (-148) + 16 = ____$$

$$6 + (-148) + 16 = ____$$
 $5 -16 + (-148) + 26 = ___$ $6 -26 + (-148) + 36 = ____$

$$10 -16 + (-148) + 6 =$$

$$10 - 16 + (-148) + 6 =$$
 $10 - 26 + (-148) + 16 =$ $12 - 36 + (-148) + 26 =$

Addition and Subtraction with Rational Numbers—Repeated Reasoning

Name:

Find patterns in subtracting integers.

Set A

$$1 -9 - 37 - (-9) =$$

$$-9 - 137 - (-9) =$$

$$7$$
 $-39 - 37 - (-39) = _____$

$$-39 - 137 - (-39) =$$

Set B

$$1$$
 $-9 - 37 - (-19) = _____$

$$-9 - 37 - (-19) = _____$$
 $-19 - 37 - (-29) = ____$ $37 - (-39) = _____$

10
$$-19 - 137 - (-9) = ____$$
 11 $-29 - 137 - (-19) = ___$ 12 $-39 - 137 - (-29) = ____$

Describe a pattern you see in one of the sets of problems above.

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Addition and Subtraction with Radona Numbers-Repeated Reasonne

Name: ___

Find patterns in adding rational numbers.

Set A

$$10 -0.9 + 4.9 + (-4.0) = \underline{\hspace{1cm}}$$

$$2 -0.8 + 4.9 + (-4.0) =$$

$$4 - 0.6 + 4.9 + (-4.0) =$$

4
$$-0.6 + 4.9 + (-4.0) =$$
 5 $-0.5 + 4.9 + (-4.0) =$ **6** $-0.4 + 4.9 + (-4.0) =$ **.**

6
$$-0.4 + 4.9 + (-4.0) =$$

$$70.3 + 4.9 + (-4.0) =$$
 $80.2 + 4.9 + (-4.0) =$ $90.1 + 4.9 + (-4.0) =$

$$9 -0.1 + 4.9 + (-4.0) =$$

Set B

$$0.09 + 5.9 + (-5.0) =$$

$$(-0.9 + 5.9 + (-5.0) = 2 -0.9 + 5.8 + (-5.0) = 2 -0.9 + 5.7 + (-5.0) = 2 -0.9 + 5.7 + (-5.0) = 2 -0.9 + 5.8 + (-5.0) = 2 -0.9 + (-5.0) = 2 -0.$$

$$3 -0.9 + 5.7 + (-5.0) =$$

$$(-0.9 + 5.6 + (-5.0) =$$

$$(4) -0.9 + 5.6 + (-5.0) = ___$$
 $(5) -0.9 + 5.5 + (-5.0) = ___$ $(6) -0.9 + 5.4 + (-5.0) = ___$

$$\boxed{6} -0.9 + 5.4 + (-5.0) = \boxed{}$$

$$7 -0.9 + 5.3 + (-5.0) =$$

8
$$-0.9 + 5.2 + (-5.0) =$$

$$70.9 + 5.3 + (-5.0) =$$
 $80.9 + 5.2 + (-5.0) =$ $90.9 + 5.1 + (-5.0) =$

Additionand Subtraction with Railona Numbers-Regenie Reasonine

Find patterns in subtracting rational numbers.

Set A

Set B

10
$$0.5 - 13 =$$

Multiplication and Division with Rational Numbers - Skills Bradite

Name: 🐧 😘 🗓

Multiply rational numbers.

$$1 \quad -\frac{3}{5} \times \left(-\frac{5}{8}\right) = \underline{\hspace{1cm}}$$

$$3 -0.2 \times (-0.4) =$$

$$-9 \times (-4) =$$

7.
$$0.2 \times (-0.05) \times 0.3 =$$

$$11 - \frac{1}{4} \times \left(-\frac{3}{4}\right) = \underline{\hspace{1cm}}$$

$$0.5 \times (-0.7) =$$

$$23 -0.5 \times 0.1 \times (-0.2) \times (-0.4) = \underline{\hspace{1cm}}$$

2
$$2 \times (-5) \times 3 \times (-4) =$$

$$-\frac{1}{6} \times \frac{5}{6} =$$

6
$$-8 \times 7 =$$

$$8 -0.6 \times 0.03 =$$

$$10 -\frac{1}{5} \times \frac{3}{5} \times \frac{4}{5} = \underline{}$$

$$-0.5 \times 0.4 \times 0.3 =$$

$$7 \times (-3) \times (-4) =$$

$$\frac{1}{3} \times \left(-\frac{2}{3}\right) = \underline{\hspace{1cm}}$$

18
$$-2 \times -6 \times -3 =$$

22
$$-\frac{1}{4} \times \frac{3}{2} \times \frac{1}{2} = \underline{\hspace{1cm}}$$

24
$$-\frac{1}{2} \times \frac{3}{2} \times \frac{5}{2} \times \left(-\frac{1}{2}\right) = \underline{\hspace{1cm}}$$

Multiplication and Division with Rational Numbers—Skills Pratitice

Name:_____

Form A

Divide rational numbers.

$$69 - 9.8 \div (-1) =$$

$$\frac{1}{6} \div \left(-\frac{1}{6}\right) =$$

9
$$35 \div (-5) =$$

$$-\frac{3}{4} \div \left(-\frac{1}{2}\right) = \underline{\hspace{1cm}}$$

$$-90 \div 9 =$$

$$\frac{2}{5} \div \left(-\frac{2}{3}\right) =$$

$$-8.9 \div 10 =$$

$$M - 36 \div (-3) =$$

17
$$-100 \div (-50) =$$

18
$$5.5 \div (-0.5) =$$

19
$$\frac{1}{8} \div \left(-\frac{1}{5}\right) =$$

20
$$-7.5 \div (-2.5) =$$

21
$$-32 \div 4 =$$

$$22 -3.6 \div 1.2 =$$

23
$$-42 \div (-6) =$$

$$24 - \frac{1}{3} \div \left(-\frac{1}{3}\right) =$$

Expressing Rational Numbers as Decirials—Skills Practice

Name:

Write fractions as decimals.

$$-\frac{4}{5} =$$

$$-\frac{1}{2} =$$

$$-\frac{5}{9} =$$

$$4 - \frac{2}{3} =$$

$$-\frac{2}{9} =$$

6
$$\frac{2}{5} =$$

$$\frac{9}{2} =$$

8
$$\frac{5}{3} =$$

$$9 - \frac{7}{5} =$$

$$-\frac{1}{4} =$$

$$\frac{10}{9} =$$

$$\frac{3}{2} =$$

13
$$\frac{7}{2} =$$

$$\frac{1}{1} - \frac{8}{5} =$$

$$\frac{5}{6} =$$

$$\frac{16}{4} = \underline{}$$

$$\frac{5}{12} =$$

$$\frac{7}{6} =$$

19
$$-\frac{5}{8} =$$

20
$$\frac{5}{4} =$$

$$\frac{9}{8} =$$

Expressing Rational Numbers as Decimals—Repeated Reasoning

Name:

Find patterns with repeating decimals. Write each fraction or fraction sum as a repeating decimal.

Set A

$$\frac{1}{3} =$$

$$\frac{2}{3} =$$

$$\frac{4}{3} =$$

$$\frac{5}{3} =$$

$$\frac{7}{3} =$$

6
$$\frac{8}{3} =$$

$$\frac{10}{3} =$$

$$\frac{11}{3} =$$

$$\frac{13}{3} =$$

$$\frac{14}{3} =$$

Set B

$$\frac{1}{6} = \frac{1}{6}$$

$$\frac{2}{6} =$$

$$\frac{3}{6} =$$

$$\frac{1}{6} + \frac{3}{6} =$$

$$\frac{2}{6} + \frac{2}{6} =$$

6
$$\frac{4}{6} =$$

$$\frac{2}{6} + \frac{3}{6} =$$

$$\frac{1}{6} + \frac{4}{6} = \underline{\hspace{1cm}}$$

$$\frac{5}{6} =$$

Expressing Rational Mumbersas Decimals—Repeated Reasoning

Name:

Find more patterns with repeating decimals. Write each fraction as a decimal.

Set A

$$\frac{1}{9} =$$

$$\frac{2}{9} =$$

$$\frac{3}{9} =$$

$$\frac{4}{9} =$$

$$\frac{5}{9} =$$

$$\frac{6}{9} =$$

$$\frac{10}{9} =$$

$$\frac{11}{9} =$$

$$\frac{12}{9} =$$

Set B

$$\frac{1}{11} =$$

$$\frac{2}{11} =$$

$$\frac{3}{11} =$$

$$\frac{4}{11} =$$

$$\frac{5}{11} =$$

$$\frac{6}{11} =$$

$$\frac{7}{11} =$$

$$\frac{8}{11} =$$

$$9 \frac{9}{11} =$$

Describe a pattern you see in one of the sets of problems above.

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Using Properties of Operations— Salispatines

Name:

Write an equivalent expression without parentheses, and combine terms if possible.

1
$$5x + 6x =$$

2
$$6n - 3(2n - 5) =$$

3
$$0.5(-12p - 4) =$$

$$4(x-6) + 30 =$$

6
$$-8(m+\frac{1}{4})=$$

$$\sqrt{8x-4x+3x+2} =$$

8
$$4.5a + 7 + 3.5a + 2 =$$

$$9 -4 + 7y - 3y - 5 =$$

$$\frac{1}{6}(12n + 36) = \underline{\hspace{1cm}}$$

$$3(y+7)-5y=$$

$$9y - 4x + 3y + 4x = _____$$

13
$$8(6a + 7) =$$

$$\frac{3}{2}x - \frac{1}{2}(x + 4) = \underline{\hspace{1cm}}$$

$$6 + 2x + 4(x + 5) = \underline{\hspace{1cm}}$$

$$-8(x+3) =$$

18
$$3y + 3(y - 2.5) =$$

19
$$9\left(-\frac{1}{3}m+4\right)-6m=$$

20
$$6.25m + 9 + 3.75m - 12 = _____$$

Using Properties of Operations— Skills Practice

Name:_____

Use the distributive property to write the expression as a product.

$$7x + 7 =$$

2
$$6y + 14 - 8y =$$

43
$$16y + (-4) =$$

$$6 -8x - 16 =$$

$$7 -11x - 44 =$$

3
$$10 + 70x =$$

$$-2x + 12 - 4x =$$

$$(1)$$
 $-25y + (-55) =$

$$-21x + 14 =$$

15
$$4y + 22 + 7y =$$

$$16 -7 + (-21x) = \underline{\hspace{1cm}}$$

$$18 -5x + 33 + 16x =$$

20
$$-40y + 100 =$$

Solve equations of form px + q = r with integers.

$$6x + 6 = 0$$

$$-3x + 9 = 6$$

$$5x + 4 = -6$$

$$-275 = 25x - 50$$

$$90 = 20x - 10$$

$$646 = 3x + 19$$

$$7 - 15x - 45 = -45$$

8
$$12x - 14 = -38$$

$$97 = 10x + 27$$

$$6x - 13 = 35$$

$$11 -127 = -50x + 23$$

12
$$8x + 5 = -3$$

13
$$7x + 4 = -38$$

$$-4x - 52 = -152$$

$$-8 = -6x - 2$$

$$-25 = 10x - 25$$

Solve equations of form px + q = r with rational numbers.

$$-3x + 6 = 9.9$$

$$8\frac{3}{5} = -4x + 5\frac{3}{5}$$

3
$$1.2x + 5.3 = 0.5$$

$$41 - \frac{1}{4}x + 6 = 10$$

$$5 7 = 11 - 0.2x$$

6
$$0.4x + 15 = 39.8$$

$$1\frac{3}{8} = \frac{1}{4}x + 1$$

$$9 \quad \frac{1}{5} = \frac{7}{5} - \frac{1}{10}x$$

$$-8.2 = -7.1 + 11x$$

$$11 -13\frac{3}{4} = -\frac{7}{10}x + \frac{1}{4}$$

$$\frac{1}{8}x + \frac{3}{4} = \frac{1}{4}$$

$$-5.6x + 8.8 = 3.2$$

$$8x - 4\frac{2}{3} = 19\frac{1}{3}$$

Solve equations of form p(x + q) = r with integers.

$$11 \ 6(x+4) = 36$$

21 =
$$7(x + 3)$$

3
$$56 = -8(x + 9)$$

$$2(x-6)=-26$$

$$-4(x-5) = -44$$

$$5(x+4)=35$$

$$-6(x-12)=48$$

$$-9 = -9(x + 4)$$

$$10(x-15)=-70$$

$$-2(x-13)=18$$

$$11 -36 = 12(x + 7)$$

$$12 -7(x+7) = 49$$

13
$$3(x-6)=24$$

$$-24 = 4(x - 6)$$

15
$$-11(x + 2) = -66$$

$$8(x-14)=64$$

Solve equations of form p(x + q) = r with rational numbers.

2
$$0.25(p + 8) = 2$$

$$3 -0.2(w - 6) = -4$$

$$2/(y+5) = \frac{4}{5}$$

$$-6.9 = 3(x + 4.6)$$

6
$$-25(p-7) = -2.5$$

$$\frac{1}{3} = \frac{1}{6}(m-9)$$

$$8. 4.5 = 5(x + 3)$$

9
$$10(x-24.2)=50$$

$$\frac{1}{4}(n+2) = -\frac{5}{2}$$

11
$$11(x-0.4)=44$$

$$20 = \frac{5}{6}(m+8)$$

13
$$-\frac{1}{5}(y+2)=4$$

7.6 =
$$2(n + 5.7)$$

Find patterns in two-step equations of form px + q = r. Solve each equation.

Set A

1
$$2x + 3 = 19; x =$$

$$2x + 3 = 20; x =$$

2
$$2x + 3 = 19; x =$$
 2 $2x + 3 = 20; x =$ 2 $2x + 3 = 21; x =$

4
$$4x + 3 = 19; x = _____$$

$$4x + 3 = 20; x =$$

4
$$4x + 3 = 19; x =$$
 6 $4x + 3 = 21; x = _____$

$$8x + 3 = 19; x =$$

8.
$$8x + 3 = 20; x =$$

$$8x + 3 = 19; x =$$
 $8x + 3 = 20; x =$ $9x + 3 = 21; x =$

Set B

$$0.25x - 3 = 2; x =$$

0.25
$$x - 3 = 2$$
; $x =$ 0.25 $x - 4 = 2$; $x =$ 0.25 $x - 5 = 2$; $x =$ 1.

$$0.25x - 5 = 2; x =$$

4.
$$0.5x - 3 = 2; x =$$

4.
$$0.5x - 3 = 2$$
; $x =$ **5.** $0.5x - 4 = 2$; $x =$ **6.** $0.5x - 5 = 2$; $x =$ **9.**

6
$$0.5x - 5 = 2: x =$$

$$x - 3 = 2; x =$$

$$x-3=2; x=$$
 $y-5=2; x=$

$$9x - 5 = 2; x = ____$$

Two-Step Equations—Repeated Reasoning

Name:

Find patterns in two-step equations of form p(x + q) = r. Solve each equation.

Set A

11
$$3(x + 3) = 30; x =$$

2
$$3(x + 4) = 30; x =$$

$$3(x+3) = 30; x = _____$$
 $3(x+4) = 30; x = ____$ $3(x+5) = 30; x = _____$

4
$$3(x+6) = 30; x =$$

3(
$$x + 7$$
) = 30; $x =$ _____

4
$$3(x+6) = 30; x = ____$$
 5 $3(x+7) = 30; x = ____$ 6 $3(x+8) = 30; x = ____$

$$3(x + 9) = 30; x =$$

7
$$3(x+9) = 30; x =$$
 8 $3(x+10) = 30; x =$ **9** $3(x+11) = 30; x =$

9.
$$3(x + 11) = 30; x =$$

Set B

$$3(x-2) = 18; x = ____$$

$$3(x-2) = 18; x = _____$$
 $3(x-3) = 18; x = ____$ $3(x-4) = 18; x = _____$

$$3(x-4) = 18; x = ____$$

$$3(x-5) = 18; x = ____$$

$$3(x-6) = 18; x = ____$$

4.
$$3(x-5) = 18; x =$$
 5. $3(x-6) = 18; x =$ **6.** $3(x-7) = 18; x =$

7
$$3(x-8) = 18; x = _____$$
 8 $3(x-9) = 18; x = ____$ 9 $3(x-10) = 18; x = _____$

8
$$3(x-9) = 18; x = ____$$

9
$$3(x-10) = 18; x = ____$$

Describe a pattern you see in one of the sets of problems above.

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Solve inequalities with integers.

1
$$3(m-4) < 27$$

$$-13 < 4x + 7$$

$$3 -2x + 7 < 19$$

4.
$$-45 < 5(p-2)$$

5 21
$$< -7(x-2)$$

$$69 -9x + 10 > -8$$

$$7 42 > 6(m + 10)$$

8
$$10(n-11) > -60$$

$$9 - 97 < -11x - 9$$

$$10 25x - 9 < -109$$

$$36 < 12(w + 1)$$

$$-130 > 50x + 20$$

13
$$-8(x-3) < -40$$

14
$$2x - 22 > -8$$

15
$$-35 < -5(x + 9)$$

TwoisStep Inequalities—Skills Practice:

Solve inequalities with rational numbers.

$$0.5x + 0.3 < -0.7$$

$$\frac{1}{4}(m+8) > \frac{1}{2}$$

$$4 < -0.2x + 7$$

$$49 -9 < -0.1(y - 5)$$

$$-\frac{5}{8}x + 6 < 5$$

6
$$-\frac{1}{6}(x-24) < 4$$

$$7.2m + 6.3 < 1.5$$

8
$$0.5 < 0.25(p + 8)$$

9
$$2.5n - 4.5 < 0.5$$

10
$$-2(y-\frac{1}{4})>-\frac{1}{2}$$

$$11 - \frac{1}{4}x + 2\frac{1}{4} < 2$$

$$0.8x + 0.6 < 0.6$$

$$\frac{3}{4} > \frac{1}{8}(n+24)$$

$$4 > -\frac{1}{2}x - 5$$

Find patterns in two-step inequalities. Solve each inequality.

Set A

$$3(x+1) > 6; x$$

$$-3(x+1) > -6; x$$

3
$$3(x + 1) > 3; x$$

$$4 -3(x+1) > -3;x$$

5.
$$3(x + 1) > 0; x$$

6
$$-3(x+1) > 0; x$$

Set B

$$4(x + 2) > 12; x$$

$$2 -4(x + 2) > -12; x$$

3
$$4(x + 3) > 12; x$$

$$4x - 4(x + 3) > -12; x$$

5
$$4(x + 4) > 12; x$$

6
$$-4(x+4) > -12; x$$

AWO-Sigoingovalliles—Repeate Reasoning Name:

Find more patterns in two-step inequalities. Solve each inequality.

Set A

1
$$2x + 2 > -4$$
; x

$$2 -2x + 2 > -4; x$$

$$3x + 2 > -4; x$$

4.
$$-3x + 2 > -4$$
; x

$$4x + 2 > -4; x$$

6
$$-4x + 2 > -4$$
; x

Set B

$$0.5x - 2 > -3; x$$

$$-0.5x - 2 > -3; x$$

$$0.5x - 3 > -3; x$$

$$4 -0.5x - 3 > -3; x$$

6
$$-0.5x - 4 > -3$$
; x _____

Describe a pattern you see in one of the sets of problems above.

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