شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية





حل نموذج أسئلة وفق الهيكل الوزاري - ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف السابع ← رياضيات ← الفصل الثاني ← الملف

التواصل الاجتماعي بحسب الصف السابع









روابط مواد الصف السابع على تلغرام

<u>الرياضيات</u>

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المزيد من الملفات بحسب الصف السابع والمادة رياضيات في الفصل الثاني		
دليل تصحيح أسئلة الامتحان الورقي - بريدج	1	
أسئلة الامتحان النهائي - بريدج	2	
حل مراجعة الوحدة السابعة الأشكال الهندسية - ريفيل	3	
حل مراجعة الوحدة السادسة المعادلات - ريفيل	4	
مراجعة نهائية وفق الهيكل الوزاري - ريفيل	5	



الأسئلة من اعداد مدرسة الصقور – مجلس 4



Part (1)محراسة

10 main questions

3 Marks per main question MCQ



Simplify each expression.

3.
$$-y + 9z - 16y - 25z + 4$$

 $(-y = 16y) + (9z - 25z) + 4$
 $= -17y + (-16z) + 4$
 $= -17y - 16z + 4$

4.
$$8z + x - 5 - 9z + 2$$

$$-4 - 4 - 8z + x - 5 - 9z + 2$$

$$-5 - 5c - 3d - 12c + d - 6$$

$$-5c - 12c) + (-3d + d) - 6$$

$$-7c + (-2d) - 6$$

$$= -7c - 2d - 6$$

Simplify algebraic expressions by identifying and combining like terms

Q3-8

Page 241

Simplify each expression.

6.
$$-\frac{3}{4}x - \frac{1}{3} + \frac{7}{8}x - \frac{1}{2}$$
7. $\frac{1}{4} + \frac{9}{10}y - \frac{3}{5}y + \frac{7}{8}$

$$\frac{(2x3)}{2x4}x + \frac{7}{8}x) + (-\frac{1x}{3x2} - \frac{1x}{2x3})$$

$$= (-\frac{6}{8}x + \frac{7}{8}x) + (-\frac{2}{6} - \frac{3}{6})$$

$$= \frac{1}{8}x - \frac{5}{6}$$

$$7.\,\frac{1}{4} + \frac{9}{10}y - \frac{3}{5}y + \frac{7}{8}$$

$$8. -\frac{1}{2}a + \frac{2}{5} + \frac{5}{6}a - \frac{1}{10}$$

$$=(-\frac{3}{6}a+\frac{5}{6}a)+(\frac{4}{10}-\frac{1}{10})$$

$$=\frac{2}{6}a+\frac{3}{10}$$

$$\frac{2}{2}\frac{1}{12} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4}$$

$$\frac{7}{14}\frac{3}{5} = \frac{1}{35} = \frac{16}{35}$$

$$\frac{7}{14}\frac{3}{5} = \frac{2}{35} = \frac{16}{35}$$

$$\frac{7}{14}\frac{3}{5} = \frac{2}{35} = \frac{16}{35}$$

Add.

1.
$$(8x + 9) + (-6x - 2)$$

= $8x + 9 - 6x - 2$
= $(8x - 6x) + (9 - 2)$
= $2x + 7$

2.
$$(5x + 4) + (-8x - 2)$$

= $5x + 4 - 8x - 2$
= $(5x - 8x) + (4 - 2)$
= $-3x + 2$
3. $(-7x + 1) + (4x - 5)$
= $-7x + 1 + 4x - 5$
= $(-7x + 4x) + (1 - 5)$
= $-3x - 4$

3.
$$(-7x + 1) + (4x - 5)$$

= $-7x + 1 + 4x - 5$
= $(-7x + 4x) + (1-5)$
= $-3x - 4$

Write one-step equations involving integers and rational numbers and use inverse operations to solve the equations

Q1-4

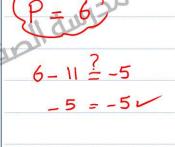
4. 12 = z - 8

Page 287

Solve each equation. Check your solution.

$$6 + 9 = -8$$
 -6
 -6
 $9 = -14$

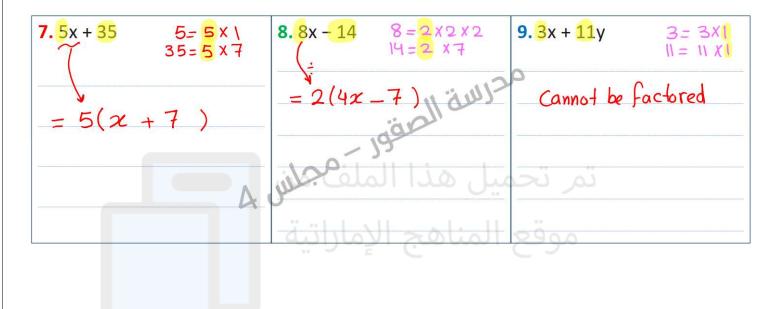
1. 6 + y = -8



11+ 11+

3. p - 11 = -5

Factor each expression. If the expression cannot be factored, write cannot be factored



4

Use GCFs to factor linear expressions

Q7-12

Page 265

Factor each expression. If the expression cannot be factored, write cannot be factored

10. 32x - 15 32 = 2x2x2x2x2x 15 = 3x5Cannot be factored

11. 72x - 18xy = 18x(4 - y) = 18x(4 - y) = 18x(4 - y) = 9x9 = 3x3x3x = 9y(5x - 9)

(2) 72 36 (3)

$$72 = 4 \times 18 = 2 \times 2 \times 2 \times 3 \times 3$$
 $18 = 1 \times 18 = 2 \times 3 \times 3$

Solve each equation. Check your solution.

5.
$$-7x = 56$$
 $\div (-7)$

$$\frac{A\chi}{A} = \frac{56}{-7}$$

$$\chi = -8$$

$$\chi = -8$$

$$6. -20 = -5b$$

$$-5b = -20 \div (-5)$$

$$\frac{-5b}{-5} = \frac{-20}{-5}$$

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

$$\frac{d}{-8}$$
 x(-9) = -6(-9)

Use inverse operations to solve one-step addition and subtraction inequalities

Q1-6

Page 339

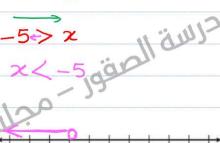
Solve each inequality. Graph the solution set on a number line.

1. x + 5 < 7 -5 -5

6

x <2

2.1 > x + 6

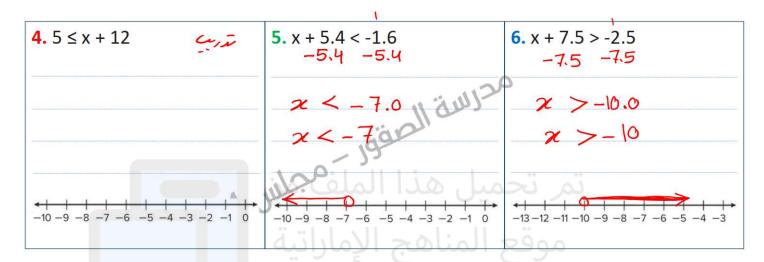


3. $x + 8 \ge 14$

Q1-6

Page 339

Solve each inequality. Graph the solution set on a number line.

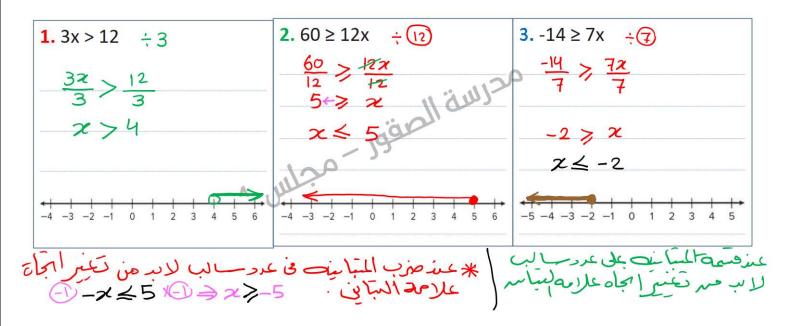


Use inverse operations to solve one-step multiplication and division inequalities with positive coefficients.

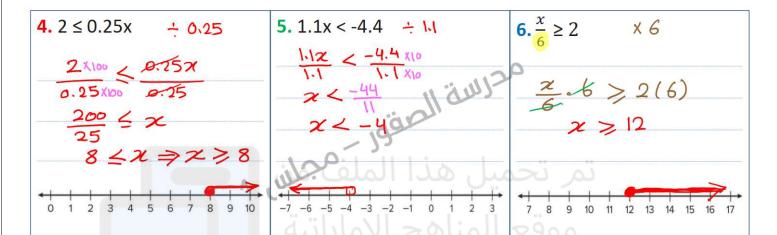
Q1-6

Page 355

Solve each inequality. Graph the solution set on a number line.



Solve each inequality. Graph the solution set on a number line.



1. Name the angle in four ways.

2. Name the angle in four ways.

2. Name the angle in four ways.

2. Name the angle in four ways.

3. LF

LHFG

LGFH

A

LABC

LCBA

Identify vertical and adjacent angles and use them to write and solve equations to find unknown angle measures

Q1-4

Page 401

3. Refer to the diagram below. Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠10

27 and 210 vertical 11 12/7
28 and 211 angler 10/9
29 and 212

210 and 29 are adjacent

4. Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠3.

Vertical angles

L1 and 24

22 and 15

13 and 16

L3 and L2 are adjacent

23 and 24 are adjecent

Identify complementary and supplementary angles and use them to write and solve equations to find unknown angle measures

Q1-6

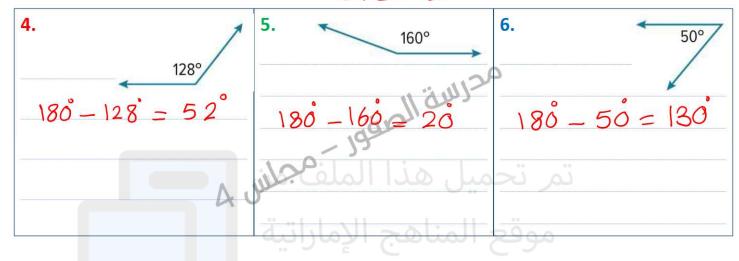
Page 411

Give the measure of the angle that is complementary to the given angle.



10

Give the measure of the angle that is supplementary to the given angle.



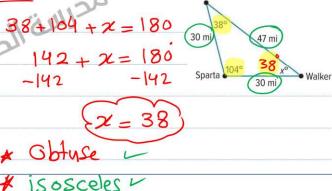
Classify and draw triangles freehand, with tools, and with technology given certain conditions, such as angle measures or side lengths

Q9-14 Page 422

9. The figure shows the Oak Creek trail, which is shaped like a triangle. Solve the equation 61 + 78 + x = 180 to find the value of x in the figure. Then classify the triangle by its angles and by its sides.

Rocky Peak

10. The three towns of Ripon, Sparta, and Walker form a triangle as shown. Solve the equation 38 + 104 + x = 180 to find the value of x in the triangle. Then classify the triangle by its angles and by its sides.



10

Classify and draw triangles freehand, with tools, and with technology given certain conditions, such as angle measures or side lengths

Q9-14

Page 422

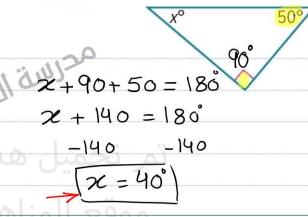
11. Reason Abstractly Without drawing the triangle, how do you know a triangle with a 95° angle, a 95° angle, and a 5-inch side is not possible? $95^{\circ} + 95^{\circ} = 190^{\circ}$

The Sum of two angles is

greater than 180

the sum of all angles of triangle must be equal 180

12. Find the value of x in the diagram. Then, find the supplement of the missing angle.



Classify and draw triangles freehand, with tools, and with technology given certain conditions, such as angle measures or side lengths

Q9-14 Page 422

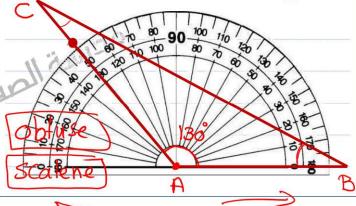
13. Justify Conclusions Construct an argument to explain why it is possible for a triangle to contain three acute angles.

The Sum of interior angles of any triangle 15 180°

we have three a cute angles
50, 60, 70

with sum of 50+60+70 = 180

14. Draw a triangle with one angle greater than 90° and no congruent sides. Then classify the triangle.



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Part (2) 10 main questions



5 Marks permain question

تمر تحميل ه MCQ لفُ علين م موقع المناهج الإماراتية

11

Simplify algebraic expressions by identifying and combining like terms

Q9-14

Page 241

Use the Distributive Property to expand each expression.

9. 2(-3x + 5)	10. 6(-4x + 3y)	11 . (3y – 2z)5
2(-3x+5)	=6(-4x+3y)	159-107
= -62 + 10	الحراسة المارية	
	= -242+189	
	المحالة	
A		

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

Use the Distributive Property to expand each expression.

12.
$$(-2x - 7)4$$

$$(-2x-7)4$$

$$= -8x - 28$$

13.
$$-7(x-2)$$

$$-7(1\chi_{-2})$$

$$= -24x + 12$$

12 Use different methods to add linear expressions

Q4-9

Page 249

Add.

4.
$$(-3x - 9) + (4x + 8)$$

$$-3x - 9 + 4x + 8$$

$$=(-3x+4x)+(-9+8)$$

$$= 2 - 1$$

5.
$$(-5x + 4) + (-9x - 3)$$



6.
$$(-2x + 10) + (-8x - 1)$$

5.
$$(-5x + 4) + (-9x - 3)$$
6. $(-2x + 10) + (-8x - 1)$

$$-2x + 10 - 8x - 1$$

$$= (-2x - 8x) + (10 - 1)$$

$$= -10x + 9$$

Add.

7.
$$\left(\frac{1}{4}x - 3\right) + \left(\frac{3}{16}x + 5\right)$$

$$\frac{4x_{1}}{4x_{4}}x - 3 + \frac{3}{16}x + 5$$

$$\left(\frac{4}{16}x + \frac{3}{16}x\right) + \left(-3 + 5\right)$$

$$=\frac{7}{16}x+2$$

8.
$$\left(\frac{1}{2}x - 3\right) + \left(\frac{1}{6}x + 1\right)$$

8.
$$\left(\frac{1}{2}x - 3\right) + \left(\frac{1}{6}x + 1\right)$$

9.
$$\left(4x + \frac{3}{4}\right) + \left(-3x - \frac{5}{12}\right)$$

$$42 + \frac{313}{413} 32 - \frac{5}{12}$$

$$\frac{4x + \frac{3x_3}{4x_3} - 3x - \frac{5}{12}}{(4x - 3x) + (\frac{9}{12} - \frac{5}{12})}$$

$$\frac{4x + \frac{3x_3}{4x_3} - 3x - \frac{5}{12}}{(4x - 3x) + (\frac{9}{12} - \frac{5}{12})}$$

$$= x + \frac{4+4}{12+4}$$

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

alManahi.com/ae Write one-step equations involving integers and rational numbers and use

inverse operations to solve the equations

Q7-12

Page 287

Solve each equation. Check your solution.

8.
$$15 = \frac{z}{-8}$$

2(5) + 4

7. $\frac{d}{-9} = -6$ X-9

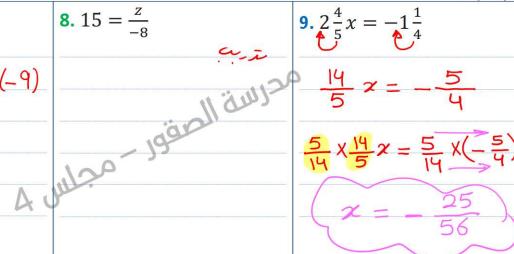
$$\frac{d}{-9}(-9) = -6(-9)$$

$$d = 54$$

9.
$$2\frac{4}{5}x = -1\frac{1}{4}$$

$$\frac{14}{5} x = -\frac{5}{4}$$

$$\frac{5}{14} \times \frac{14}{5} \times = \frac{5}{14} \times (-\frac{5}{4})$$



في الهوب والعنمة الاشارة الحمليه لقطي ساله على موجب

14

Solve each equation. Check your solution.

10.
$$-6 = \frac{3}{5}y$$

$$\frac{5}{3} \times -\frac{6}{1} = \frac{5}{3} \times \frac{3}{5}y$$

$$-\frac{5(6)^{2}}{3} = y$$

$$-10 = y$$

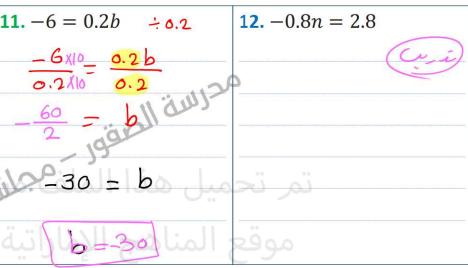
$$y = -10$$

11.
$$-6 = 0.2b$$
 $\div 0.2$

$$\frac{-6 \times 10^{2}}{0.2 \times 10^{2}} = \frac{0.2b}{0.2}$$

$$\frac{-60}{2} = b \cdot 1 \cdot 3 \cdot 10^{2}$$

$$\frac{-60}{2} = b \cdot 1 \cdot 3 \cdot 10^{2}$$



Write two-step equations of the form px + q = r and use inverse operations

to solve the equations

Q5-7 Page 305

5. A hot air balloon is at an altitude of $100\frac{1}{5}$ yards. The balloon's altitude decreases by $10^{\frac{4}{5}}$ yards every minute. Determine the number of minutes it will take the balloon to reach an altitude of 57 yards.

$$100 \frac{1}{5} \frac{1}{2} - 10 \frac{4}{5} m = 57$$

$$100.2 - 10.8 m = 57.0$$

$$-100.2$$

$$-10.8 m = -43.2 \div (-10.8)$$

$$m = -43.2 \times 10 = -43.2$$

$$100.2$$

6. The current temperature is 48°F. It is expected to drop (1.5°F) each hour. Determine in how many hours the temperature will be 36°F.

expected to drop (1.5°F) each hour. Determine in how many hours the temperature will be 36°F.

$$48 - 1.5h = 36$$

$$-18 - 12 + (-1.5)$$

$$+ (-10.8)$$

$$+ (-10.8)$$

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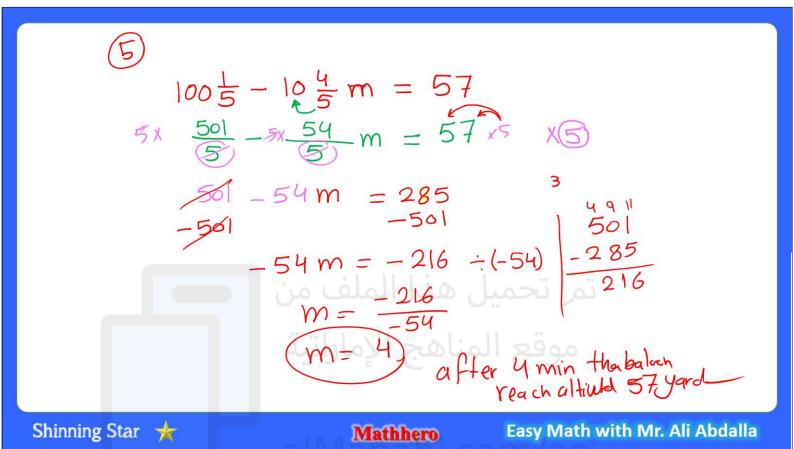
$$+ (-10.8)$$

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Write two-step equations of the form px + q = r and use inverse operations to solve the equations

Q5-7

Page 305