

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



تجميع أسئلة وفق الهيكل الوزاري الجديد

موقع المناهج ← المناهج الإماراتية ← الصف الرابع ← رياضيات ← الفصل الثالث ← الملف

التواصل الاجتماعي بحسب الصف الرابع



روابط مواد الصف الرابع على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الثالث

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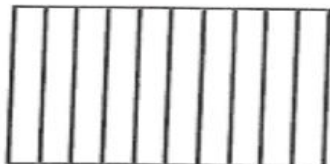


Mathematics

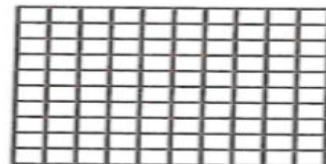
Part-1	Type Questions نوع الأسئلة	اختياري	الدرجات لكل سؤال أساسي	Marks per Main Question	3 درجات
U12-1	Represent fractions with denominators of 10 or 100		Exercise (1-4)		Page:133

How can you shade the grid to represent the fraction?

1. $\frac{6}{10}$

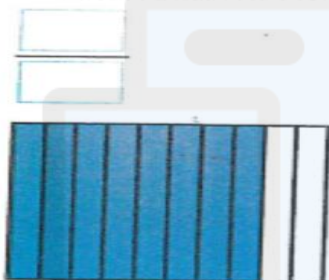


2. $\frac{40}{100}$

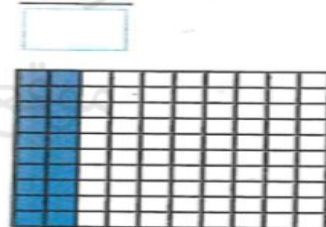


What fraction does the grid represent?

3.



4.



U12-1	Represent fractions with denominators of 10 or 100	Exercise (5-9)	Page:133
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How can you express the fraction as an equivalent fraction with a denominator of 10 or 100? Complete the equation.

5. $\frac{70}{100} = \frac{7}{\square}$

6. $\frac{\square}{100} = \frac{5}{10}$

7. $\frac{2}{10} = \frac{\square}{\square}$

8. $\frac{\square}{\square} = \frac{60}{100}$

9. Which of these are equivalent to a fraction with a denominator of 10? Choose all that apply.

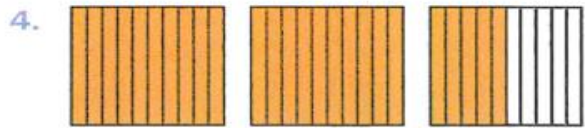
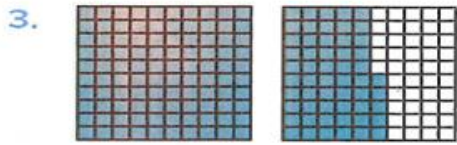
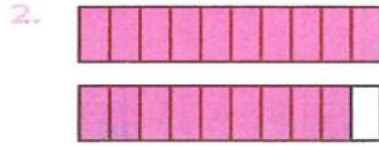
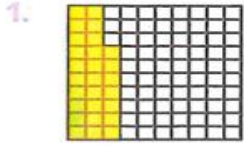
A. $\frac{3}{100}$

B. $\frac{10}{100}$

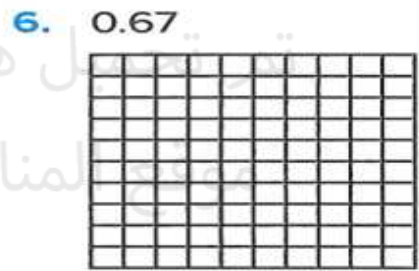
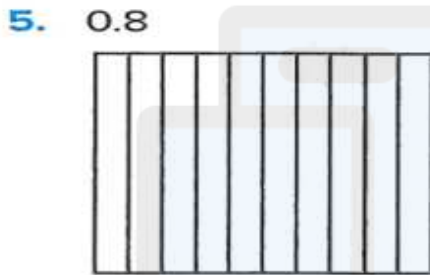
C. $\frac{25}{100}$

D. $1\frac{40}{100}$

What number does the model represent? Write it as a fraction or mixed number and as a decimal.



How can you shade the grid to represent the decimal?



How can you convert the metric units? Complete the equation.

1. 12 meters = ? centimeters

$12 \times \underline{\hspace{2cm}} = 1,200$

12 meters = centimeters

2. 8 kilograms = ? grams

$8 \times \underline{\hspace{2cm}} = 8,000$

8 kilograms = grams

3. 14 centimeters = millimeters

4. 25 liters = milliliters

5. 4 centimeters = millimeters

6. 6 meters = millimeters

7. 10 liters = 10,000

8. 200 meters = 20,000

9. How many milliliters of water will fill the tea kettle? Explain.



10. An inchworm crawls 3 meters. What are two other ways to represent the same distance using smaller units?

11. A box of printer paper weighs 9 kilograms. Does the box weigh more than 9,000 grams?

12. In 6 kilometers, there are 6,000 meters. Why does the number with the measurement units increase from 6 to 6,000?

13. Would it be easier to lift the weight shown or one that weighs 5,000 grams? Explain.

What number makes the equation true?

1. 5 pounds = ? ounces

$$5 \times \underline{\quad} = 80$$

$$5 \text{ pounds} = \underline{\quad} \text{ ounces}$$

2. 8 tons = ? pounds

$$8 \times \underline{\quad} = 16,000$$

$$8 \text{ tons} = \underline{\quad} \text{ pounds}$$

3. 4 pounds = _____ ounces

4. 5 tons = _____ pounds

5. _____ ounces = 6 pounds

6. _____ pounds = 7 tons

7. 10 pounds = 160 _____

8. 20 tons = 40,000 _____

U13-2	Express larger customary units of weight in terms of smaller units	Exercise (1-11)	Page:167
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9. Mike bought 7 pounds of tomatoes to make a batch of pizza sauce. What is the weight of the tomatoes in ounces?

10. There are 160 ounces of potatoes in a 10-pound bag. Why is the number of ounces greater than the number of pounds?

11. A minivan weighs 3 tons. A truck weighs 8,000 pounds. Which vehicle weighs more? Explain.

U13-2	Express larger customary units of weight in terms of smaller units	Exercise (12-14)	Page:168
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12. Jack bought $1\frac{1}{2}$ pounds of bananas. What is the weight of the bananas in ounces?



13. A truck weighs $2\frac{3}{4}$ tons. What is the weight of the truck in pounds?

14. Mark delivered 1 ton of fertilizer to the botanical garden. Each day they spread 50 pounds of fertilizer on the plants. How many days will it take to spread all the fertilizer? Explain.

U13-3

Express larger customary units of capacity in terms of smaller units

Exercise (1-6)

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Complete the table.

1.

Cups (c)	Fluid Ounces (fl oz)
1	8
2	
3	
4	
5	

2.

Quarts (qt)	Pints (pt)
1	2
2	
3	
4	
5	

What number makes the equation true?

3. 6 cups = _____ fluid ounces

4. 8 quarts = _____ pints

5. _____ quarts = 4 gallons

6. _____ cups = 7 pints

U13-4

Express larger units of time in terms of smaller units

Exercise (1-6)

Page:175

What number makes the equation true?

1. 5 hours = ? minutes

$5 \times \underline{\quad} = 300$

5 hours = _____ minutes

2. 10 minutes = ? seconds

$10 \times \underline{\quad} = 600$

10 minutes = _____ seconds

3. 7 hours = _____ minutes

4. 6 minutes = _____ seconds

5. _____ hours = 360 minutes

6. _____ hours = 900 minutes

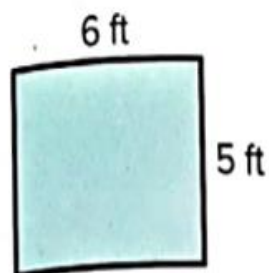
U13-7

Use the formula for the perimeter of a rectangle

Exercise (1-8)

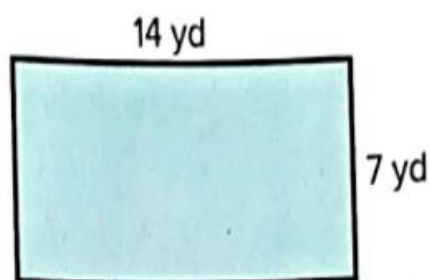
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1.



$P = \underline{\quad} \text{ ft}$

2.



$P = \underline{\quad} \text{ yd}$

3. $l = 10$ miles, $w = 4$ miles

$$P = 2 \times (10 + \underline{\hspace{2cm}})$$

$$P = \underline{\hspace{2cm}} \text{ miles}$$

4. $l = 5$ km, $w = 2$ km

$$P = (2 \times 5) + (2 \times \underline{\hspace{2cm}})$$

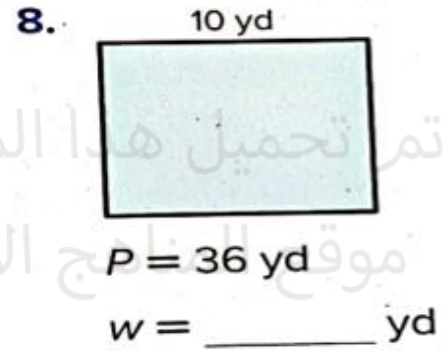
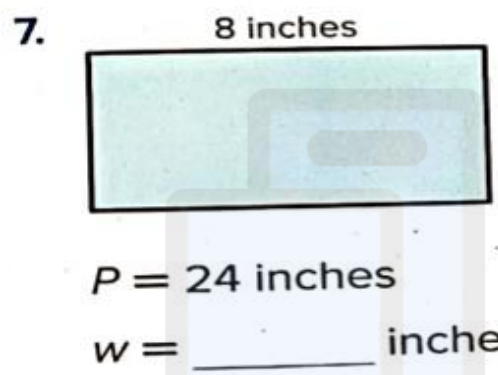
$$P = \underline{\hspace{2cm}} \text{ km}$$

5. $l = 8$ m, $w = 5$ m

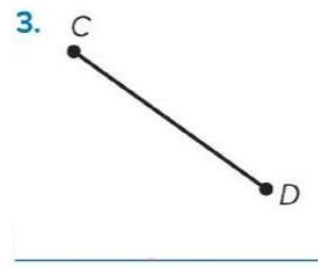
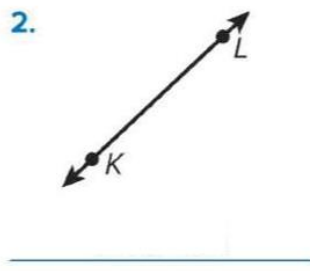
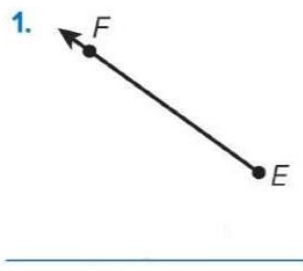
$$P = \underline{\hspace{2cm}} \text{ m}$$

6. $l = 5$ units, $w = 5$ units

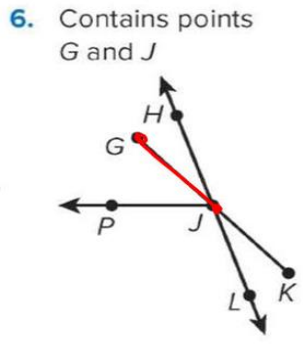
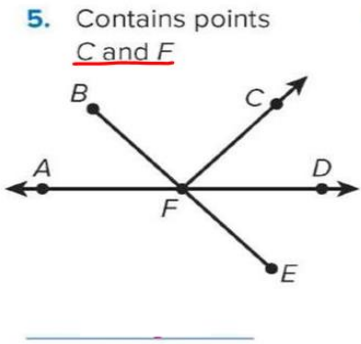
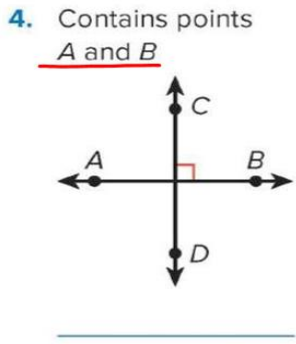
$$P = \underline{\hspace{2cm}} \text{ units}$$



How can you name the figure? Write the name that best describes it.



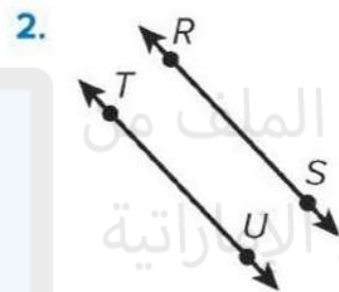
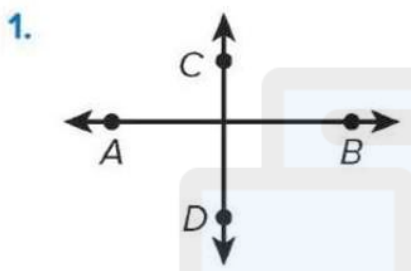
What name best describes the part of the figure containing the given points? Write the name of the figure.



Draw the figure.

7. Line segment UV (\overline{UV}) 8. Ray TS (\vec{TS}) 9. Line JK (\vec{JK})

How can you describe the pair of lines shown? Label the pair of lines as parallel, perpendicular, or neither.



Draw a pair of lines that match the description.

4. Perpendicular 5. Intersecting, but not perpendicular. 6. Parallel

What capital letter of the alphabet matches the description?

7. Includes perpendicular and parallel lines 8. Includes perpendicular lines, but not parallel lines 9. Includes parallel lines, but not perpendicular lines

U12-3	Compare two decimals by expressing them as fractions	Exercise (5-8)	Page:141
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How can you express the decimals as fractions to compare?
Write the fractions, and complete with $>$, $<$, or $=$.

5. $0.62 \bigcirc 0.26$

$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$

6. $0.57 \bigcirc 0.7$

$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$

What comparison statement can you write for the decimals?
Explain your thinking.

7. 0.27 and 0.4

8. 1.4 and 0.63

U12-3	Compare two decimals by expressing them as fractions	Exercise (9)	Page:142
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Which comparisons are true? Choose all that apply.

A. $0.4 = 0.04$

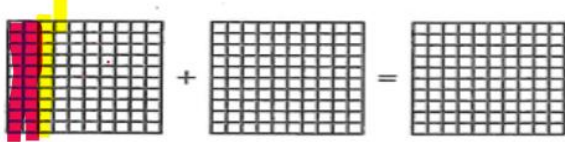
B. $0.78 < 0.9$

C. $0.27 > 0.3$

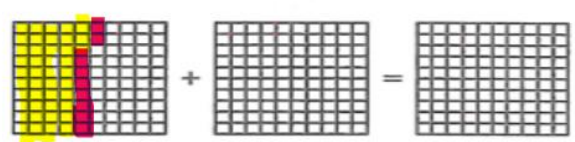
D. $2.51 > 2.3$

U12-4	Use equivalent fractions to add fractions with denominators of 10 and 100	Exercise (1-8)	Page:147
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1. $\frac{20}{100} + \frac{11}{100} = \underline{\hspace{2cm}}$



2. $\frac{42}{100} + \frac{1}{10} = \underline{\hspace{2cm}}$



What is the sum? Explain your work.

3. $\frac{4}{10} + \frac{9}{100} = \frac{\square}{\square}$

4. $\frac{53}{100} + \frac{3}{10} = \frac{\square}{\square}$

5. $\frac{2}{10} + \frac{13}{100} = \frac{\square}{\square}$

6. $\frac{21}{100} + \frac{7}{10} = \frac{\square}{\square}$

Part-2	Type Questions	نوع الأسئلة	اختياري	الدرجات لكل سؤال أساسي	Marks per Main Question	5 درجات
U12-4	Use equivalent fractions to add fractions with denominators of 10 and 100				Exercise (1-8)	Page:147
<p>7. Keegan walks $\frac{5}{10}$ mile to meet his friend. Then Keegan and his friend walk $\frac{35}{100}$ mile to the park. How far did Keegan walk in all?</p> <p>8. Which addition problems have a sum of $\frac{62}{100}$? Choose all that apply.</p> <p>A. $\frac{6}{10} + \frac{2}{100}$</p> <p>B. $\frac{6}{100} + \frac{2}{10}$</p> <p>C. $\frac{4}{10} + \frac{22}{100}$</p> <p>D. $\frac{4}{10} + \frac{58}{100}$</p>						
U13-6	Use representations to solve word problems that involve converting units of measure				Exercise (1-6)	Page:185

Solve the problem.

- Derinda's dog weighs 4 pounds. Elizabeth's dog weighs $5\frac{1}{4}$ pounds. What is the combined weight of the two dogs in ounces?
- Fasil makes 3 gallons of soup. He puts the soup in 1-quart containers. How many containers can he fill?
- Jasmine has $3\frac{2}{3}$ yards of lace for 5 pillows. She uses 20 inches of lace for each pillow. How much lace does she have left?
- Helen worked in the garden from 2:20 p.m. to 6:15 p.m. How many minutes did she work in the garden?

U13-6	Use representations to solve word problems that involve converting units of measure	Exercise (1-6)	Page:185
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5. A vine grows $\frac{1}{2}$ foot each week. How many inches does it grow in 6 weeks?

6. Hannah has 3 quarts of blueberries and 7 pints of raspberries. How many pints of berries does she have?

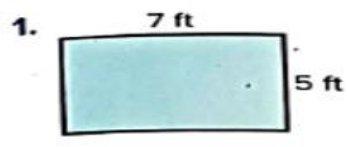
U13-6	Use representations to solve word problems that involve converting units of measure	Exercise (7-9)	Page:186
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7. How much more does a $6\frac{1}{2}$ -ton elephant weigh than an 8,000-pound hippopotamus?

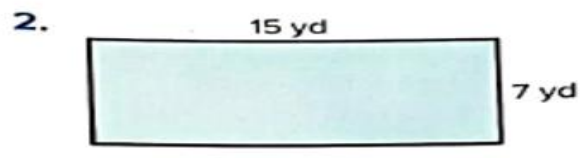
8. One soccer game ends at 10:15 a.m. and the next soccer game starts at 1:20 p.m. How many minutes are there between the games?

9. Jess swam 400 yards in 14 minutes. Christina swam 960 feet in the same amount of time. Who swam faster? Explain.

What is the area?



$A = \underline{\hspace{2cm}}$ square ft



$A = \underline{\hspace{2cm}}$ square yd

3. $l = 12$ meters, $w = 6$ meters

$A = \underline{\hspace{2cm}}$ square meters

4. $l = 25$ km, $w = 4$ km

$A = \underline{\hspace{2cm}}$ square km

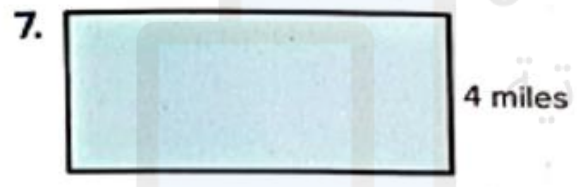
5. $l = 8$ cm, $w = 5$ cm

$A = \underline{\hspace{2cm}}$ square cm

6. $l = 22$ miles, $w = 5$ miles

$A = \underline{\hspace{2cm}}$ square miles

What is the missing value?



$A = 44$ square miles

$l = \underline{\hspace{2cm}}$ miles



$A = 49$ square inches

$w = \underline{\hspace{2cm}}$ inches

Solve the problem.

9. A rectangular garden has a width of 9 feet and an area of 144 square feet. What is the length of the garden?

10. A square piece of cardboard has a side length of 18 inches. What is the area of the piece of cardboard? Show your work.

11. A rectangular park has an area of 60 square miles. What are 3 possible length and width combinations?

12. Show your work or explain your thinking.

If the width of the blanket is half the length, what is the area of the blanket?



60 in.

13. Error Analysis

Show your work or explain your thinking.

The side lengths of a square are 6 units. Marcus says the area of the square is 24 square units. How can you explain his error?

14. Show or explain your answer.

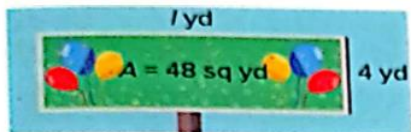
The area of a rectangular parking lot is 2,500 square feet. If the length of the parking lot is 100 feet, what is the width?

15. Extend Your Thinking

Show or explain your answer.

The perimeter of a rectangle is 24 feet. What could be the area?
Find 3 possible answers.

1. A billboard has the following measurements.



- a. What is the length of the billboard?

$$48 = l \times 4$$

$$l = \underline{\hspace{2cm}} \text{ yd}$$

- b. What is the perimeter?

$$P = 2 \times (\underline{\hspace{2cm}} + 4)$$

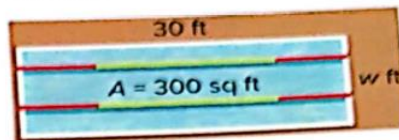
$$P = 2 \times \underline{\hspace{2cm}}$$

$$P = \underline{\hspace{2cm}} \text{ yd}$$

3. A rectangular koi pond has an area of 12 square feet and a width of 2 feet. What is the length and perimeter?

$$l = \underline{\hspace{2cm}} \text{ ft} \quad P = \underline{\hspace{2cm}} \text{ ft}$$

2. A lap pool has the following measurements.



- a. What is the width of the lap pool?

$$300 = 30 \times w$$

$$w = \underline{\hspace{2cm}} \text{ ft}$$

- b. What is the perimeter?

$$P = 2 \times (30 + \underline{\hspace{2cm}})$$

$$P = 2 \times \underline{\hspace{2cm}}$$

$$P = \underline{\hspace{2cm}} \text{ ft}$$

4. A rectangular rug has an area of 15 square feet and a width of 3 feet. What is the length and perimeter?

$$l = \underline{\hspace{2cm}} \text{ ft} \quad P = \underline{\hspace{2cm}} \text{ ft}$$

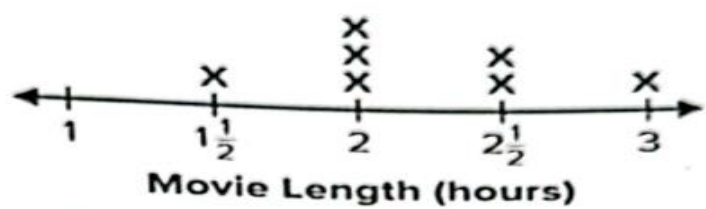
7. A rectangular park has an area of 12 square miles. What are 3 possible perimeters in miles? Justify your solutions.

8. A gardener has 60 inches of edging material to surround a rectangular flowerbed. What is the greatest possible area of the flowerbed? Justify your solution.

9. **STEM Connection** Sam designs a rectangular building. The area is 360,000 square feet. The length of the building is 900 feet. What are 3 possible widths? Explain.



U13-11	Solve problems involving addition and subtraction of fractions based on analysis of data displayed in line plots	Exercise (1-8)	Page:205
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1. What is the difference between the lengths of the longest movie and the shortest movie?
2. What is the combined length of the shortest movie and the longest movie?
3. How long would you need to watch all the movies?
4. If the two longest movies were playing one right after the other, would you be able to watch both movies in 5 hours? Explain.

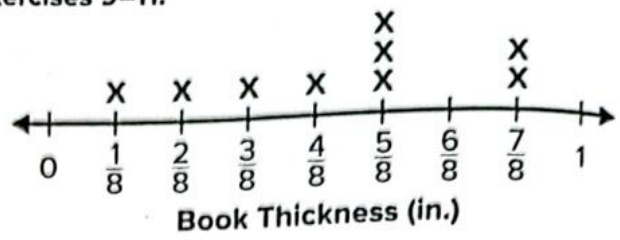
Use the line plots to answer exercises 5–8.



5. How many hours were spent practicing band?
6. How many hours were spent practicing basketball?
7. If you wanted to practice both activities for the same amount of time each week, which activity would you need to practice more? By how much?
8. How much time was spent practicing both activities throughout the week?

U13-11	Solve problems involving addition and subtraction of fractions based on analysis of data displayed in line plots	Exercise (9-10)	Page:206
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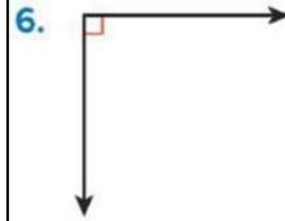
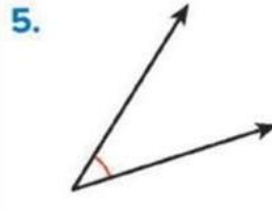
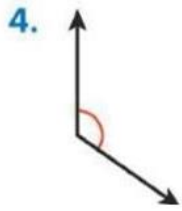
Use the line plot to answer exercises 9–11.



9. What is the difference in thickness between the thickest book and the thinnest book?
10. What is the combined thickness of the $\frac{5}{8}$ -inch books?

U14-2	Understand concepts of angle measurement and classify angles as right, acute, or obtuse	Exercise (4-9)	Page:221
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How can you classify the angle? Explain your thinking.



Draw the angle.

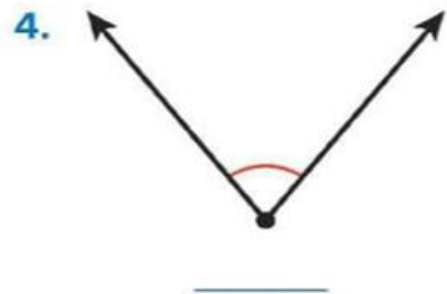
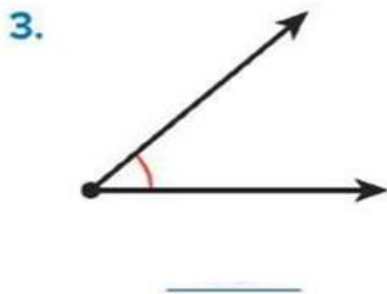
7. Right

8. Acute

9. Obtuse

U14-3	Measure angles	Exercise (1-8)	Page:225
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What is the measure of the angle? Use a protractor.



Use a protractor to draw the angle.

5. 58

6. 30

7. 95

7. 104

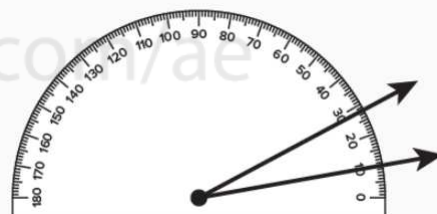
9. Alex drew an obtuse angle. Which of the following could be its measure?

A. 127°

B. 34°

C. 90°

D. 78°



10. Error Analysis

Show or explain the answer.

Erica states that the angle shown has a measure of 28° . How do you respond to Erica?

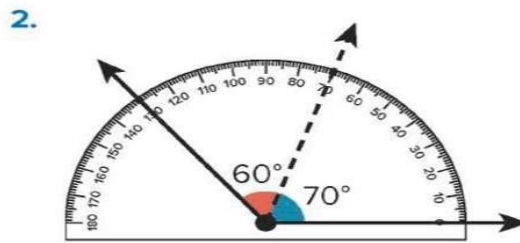
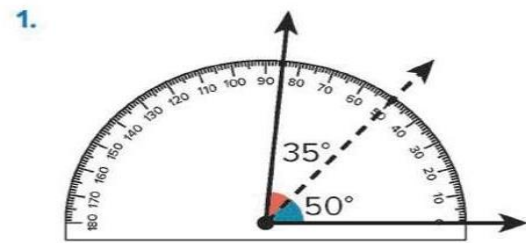
11. Extend Your Thinking

Show or explain the answer.

Draw obtuse, right, and acute angles. Use a protractor to measure the angles, and label as obtuse, right, or acute.

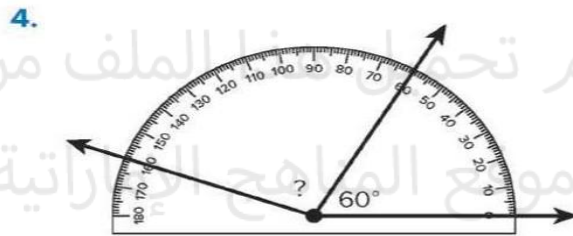
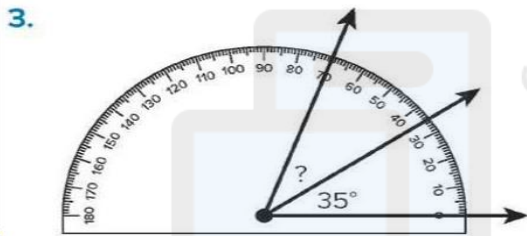
U14-5	Decompose an angle and recognize that the whole angle is the sum of the decomposed angles	Exercise (1-5)	Page:233
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What is the sum of the two angles?

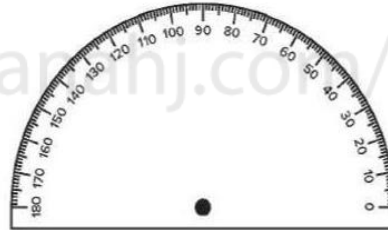


U14-5	Decompose an angle and recognize that the whole angle is the sum of the decomposed angles	Exercise (1-5)	Page:233
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What is the measure of the unknown angle?

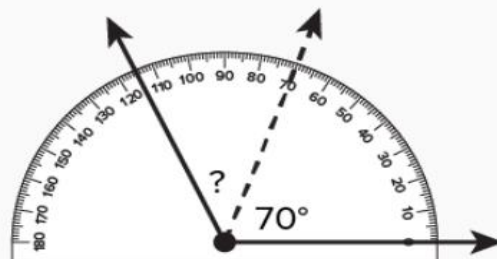


5. Gabriela drew a ray inside an obtuse angle to partition the angle into two acute angles. What is a possible measure of the obtuse angle and the two acute angles? Use the protractor to draw the angles.



U14-5	Decompose an angle and recognize that the whole angle is the sum of the decomposed angles	Exercise (20)	Page:259
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What is the measure of the unknown angle?



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Part-2	Type Questions نوع الأسئلة	اختياري	الدرجات لكل سؤال أساسي	Marks per Main Question	5 درجات
U14-7	Identify properties of quadrilaterals such as parallel and perpendicular lines			Exercise (1-5)	Page:241

Match the quadrilateral with its attributes.

1. rhombus,

A parallelogram with 4 right angles and 4 equal sides

2. trapezoid

A quadrilateral with two pairs of parallel lines

3. square

A quadrilateral with exactly one pair of parallel lines

4. parallelogram

A parallelogram with 4 equal sides

5. rectangle

A parallelogram with 4 right angles and 2 pairs of equal sides



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What decimal represents the total amount of money?



\$ _____



\$ _____



\$ _____



\$ _____

5. Marnie has the amount shown. Her mom gives her a one-dollar bill and 2 dimes. How much money does Marnie have now?



6. John has the amount shown. He spend \$1.25. How much money does John have now?



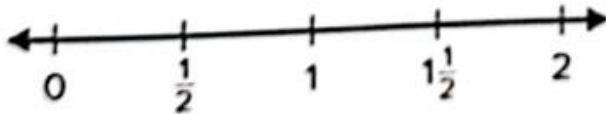
7. Sergio wants to buy a snack for \$1.75. He has a one-dollar bill, 6 dimes, and 7 pennies. Does he have enough money to buy the snack? Explain.

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Use the data for exercises 5 and 6.

5. The table shows the time Jackson spent practicing the saxophone each day. Display the data on a line plot.

Saxophone Practice (hours)	
Monday	$1\frac{1}{2}$
Tuesday	0
Wednesday	$\frac{1}{2}$
Thursday	1
Friday	1
Saturday	0
Sunday	$1\frac{1}{2}$



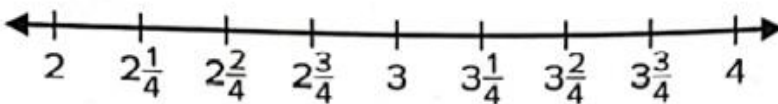
6. How many hours did Jackson practice in all?

_____ hours

The table shows the distances Kireka's family hiked each day during a family vacation. Use the data in the table for exercises 7–10.

7. Draw a line plot to display the data.

Distance Hiked (miles)	
Monday	$3\frac{1}{4}$
Tuesday	2
Wednesday	$3\frac{2}{4}$
Thursday	$2\frac{1}{4}$
Friday	4
Saturday	$2\frac{3}{4}$
Sunday	$3\frac{1}{4}$



8. Which distance was most frequently hiked?

_____ miles

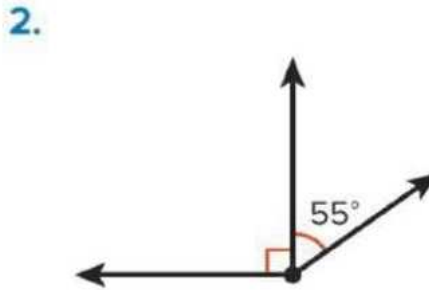
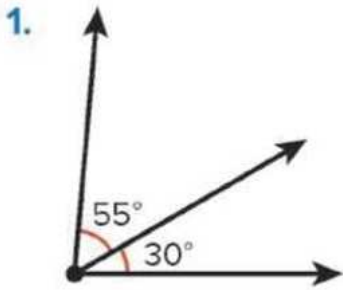
9. What is the difference between the longest and shortest distance Kireka's family hiked?

_____ miles

Part-3	Type Questions	نوع الأسئلة	كتابي	الدرجات لكل سؤال أساسي	Marks per Main Question	8-6 درجات
U14-6	Represent and solve problems involving an unknown angle measure using an equation with a variable			Exercise (1-6)		Page:237

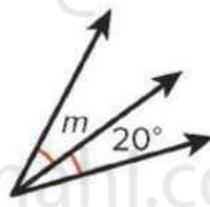
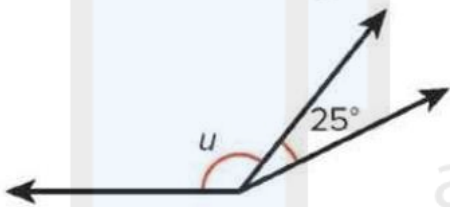
مطلوب أن يتدرب الطالب على خطوات الحل

What is the combined angle measure? Show your work.



What is the unknown angle measure? Write an equation to show your work.

3. The sum of the angles is 155° . 4. The sum of the angles is 45° .



5. The sum of the angles is 72° . 6. The sum of the angles is 180° .



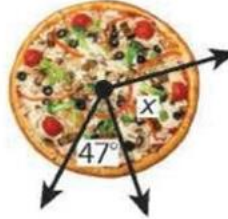
Part-3	Type Questions نوع الأسئلة	كتابي	الدرجات لكل سؤال أساسي	Marks per Main Question	8-6 درجات
U14-6	Represent and solve problems involving an unknown angle measure using an equation with a variable		Exercise (7-11)		Page:238

مطلوب أن يتدرب الطالب على خطوات الحل

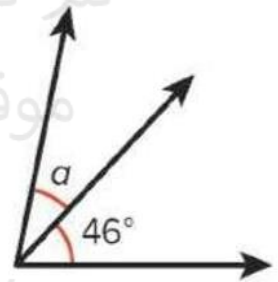
7. The combined angle measure is 140° .



8. The combined angle measure is 133° .



9. **STEM Connection** The drawing represents the turn made by one of Antonio's robots. The total turn measures 78° . What is the measure of angle α ?



10. An angle that measures 65° is partitioned into two smaller angles. The first angle measures 22° . What is the measure of the second angle? Write an equation to solve.

11. Extend Your Thinking

Show or explain the answer.

Draw an angle that has been divided into three smaller angles. Label two of the angle measures and the combined angle measure. Use an equation to represent the measure of the unknown angle. Then solve.