تم تحميل هذا الملف من موقع المناهج الإماراتية





تجميعة أسئلة صفحات الكتاب وفق الهيكل الوزاري منهج ريفيل

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

تاريخ إضافة الملف على موقع المناهج: 29-05-2024 18:50:17

التواصل الاجتماعي بحسب الصف الثامن









اضغط هنا للحصول على جميع روابط "الصف الثامن"

روابط مواد الصف الثامن على تلغرام

التربية الاسلامية اللغة العربية العربية الاسلامية الانجليزية

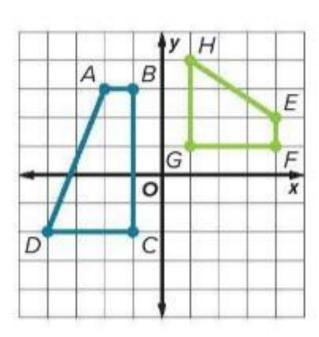
المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الثالث 1 حل تحميعة أسئلة الكتاب وفق الهيكل الوزاري منهج بريدج تحميعة أسئلة وفق الهيكل الوزاري منهج بريدج 3 تحميعة أسئلة وفق الهيكل الوزاري منهج بريدج 4 حل أسئلة الامتحان النهائي منهج بريدج

Question*	Languing Outroons / Danfarmon or Critoria **	Reference(s) in the Student Book (English Version)	
	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)	
السوال*	نَاتَج التَّعَلَم/ معاييرالأِداء**	Example/Exercise	المرجع في كتاب الطالب (النسخة الانجليزية) e/Exercise Page
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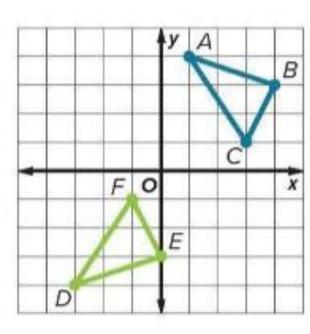
1 Use a composition of transformations, as well as the orientation of figures, to determine if two figures are congruent. 1 to 5 491

Determine if each pair of figures are congruent. If so, describe a sequence of transformations that maps one figure onto the other figure. If not, explain why they are not congruent. (Examples 1 and 2)

1.

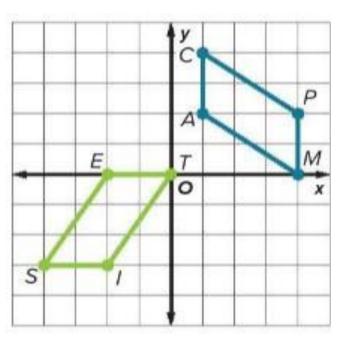


2.



Question*	Lauring Outrom (Portrom or Criteria **		Reference(s) in the Student Book (English Version)		n)	
	Learning Outcome/Performance Criteria**			المرجع في كتاب الطالب (النسخة الانجليزية) Page		
السؤال*	ناتج التعلم/ معاييرالأداء**		Example/Exe	ercise	المرجع في كتاب الطالب (النسخة ا	
السوال	The state of the s		ىثال/تمرين	الصفحة مثال/تمرين		
1	Use a composition of transformations, as well as the orientation of figures, to determine if two figures are congruent.		1 to 5		491	

 Parallelogram CAMP is congruent to parallelogram SITE. Determine which sequence of transformations maps parallelogram CAMP onto parallelogram SITE. (Example 3)

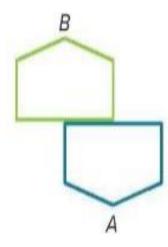


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Question*	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الإنجليزية)	
السوال*	نَاتَج التَّعلم/ معاير الأداء**	Example/Exercise Page الصفحة مثال/تمرين	Page
السوال	المام المعار		

4. For his school web page, Manuel created the logo shown at the right. What transformations could be used to create the logo if Figure A is the preimage and Figure B is the image? Are the two figures congruent? (Example 4)

Use a composition of transformations, as well as the orientation of figures, to determine if two figures are congruent.

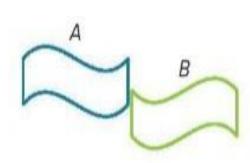
2



1 to 5

491

5. For the local art gallery opening, the curator had the design shown at the right created. What transformations could be used to create the design if Figure A is the preimage and Figure B is the image? Are the two figures congruent? (Example 4)

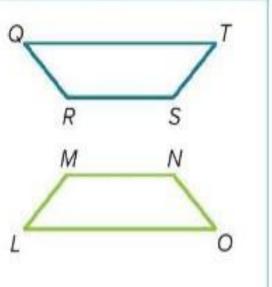


Question*	Laureina Cutanana (Danfaranana Critaria **	Reference(s) in the Student Book (English Version)	
	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)	
السوال*	نَاتِج التَّعَلَم/ معاييرالأِداء**	Example/Exercise	المرجع في كتاب الطالب (النسخة الانجليزية)
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2	Use a composition of transformations, as well as the orientation of figures, to determine if two figures are congruent.	1 to 5	491
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Test Practice

- 6. Multiple Choice Trapezoid QRST and its image are shown. What transformation maps trapezoid QRST onto trapezoid LMNO?
 - (A) dilation about vertex R
 - B vertical translation
 - © reflection across a horizontal line
 - (D) rotation about vertex Q

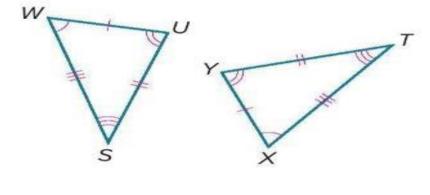


Question*	Lauring Outromy/Parformance Criterin**	Reference(s) in the Student Book (English Version)		
	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)		
* 1. 1	نَاتَج التَّعلم/ معاير الأداء**	Example/Exercise Page	Page	
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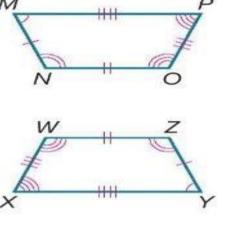
Write congruence statements comparing the corresponding parts in each set of congruent figures. (Example 1)

Use the properties of rotations, reflections, and translations to identify congruent parts of congruent figures and to find missing measures.

congruent figures. (Example 1)



2.

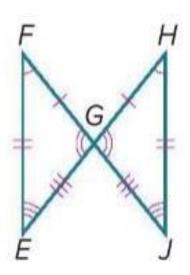


1 to 8

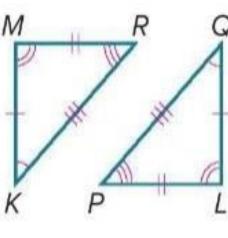
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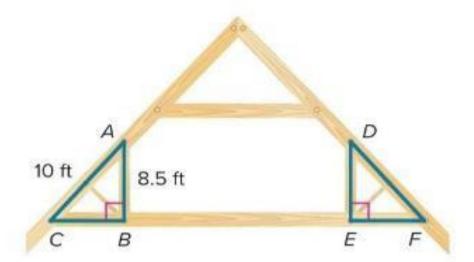
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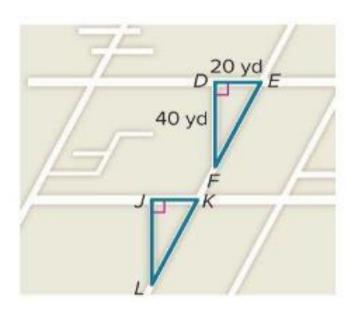
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Question*		Learning Outcome/Performance Criteria**	خة الانجليزية)	المرجع في كتاب الطالب (النسخة ا Page	
* 11. 11		ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page	
السوال*		The state of the s	مثال/تمرين	الصفحة	
	3	Use the properties of rotations, reflections, and translations to identify congruent parts of congruent figures and to find missing measures.	1 to 8	499 +500	

Apply

7. In the roof construction shown, $\triangle ABC \cong \triangle DEF$. If AB = 8.5 feet and AC = 10 feet, what is the length of \overline{EF} ? Round to the nearest tenth.

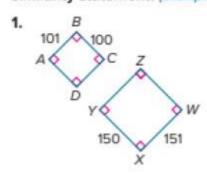


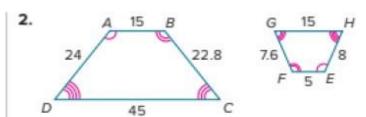
8. In the city park map shown, △DEF ≅ △JKL. The distance from D to E is 20 yards and the distance from D to F is 40 yards. What is the distance from K to L? Round to the nearest tenth.

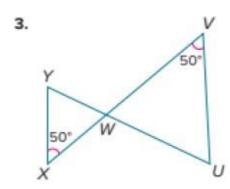


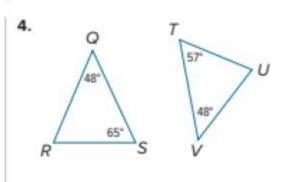
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	4	Use properties of similar figures to determine similarity and to find missing measures.	1 to 7	521

Determine whether each pair of polygons is similar. If so, write a similarity statement. (Examples 1 and 2)





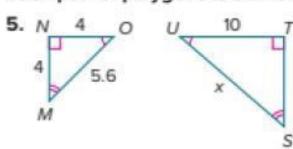


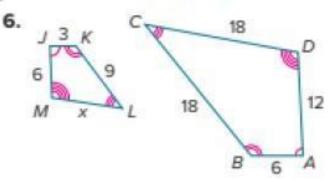


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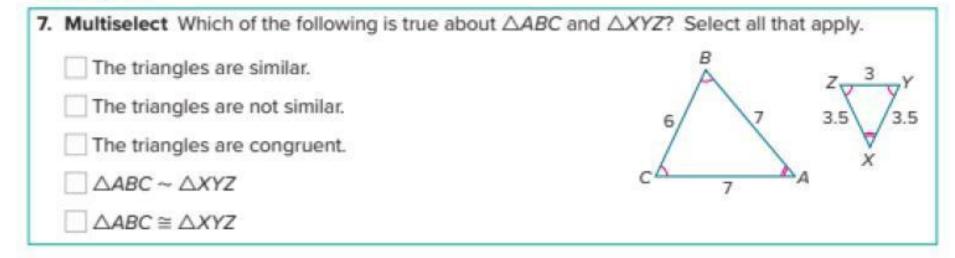
5 Use properties of similar figures to determine similarity and to find missing measures. 1 to 7 521

Each pair of polygons is similar. Find each missing side measure. (Example 3)





Test Practice



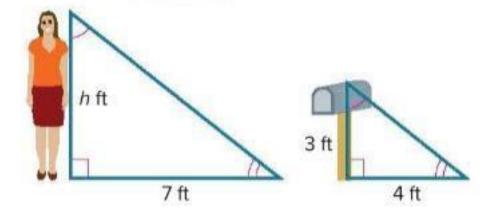
Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (English Version) المرجع في كتاب الطالب (النسخة الانجليزية)	
المعام المعاور والأواداء	مثال/تمرين		

- 5. Multiple Choice Which sequence of transformations can be used to show that two figures are similar but not necessarily congruent?
 - (A) dilation and rotation
 - (B) translation and reflection
 - (c) reflection and rotation
 - (D) rotation and translation

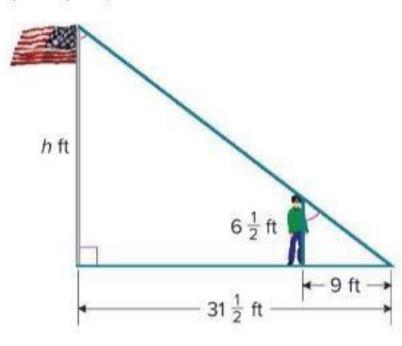
Question*	Reference(s) in the Student Book (English Version)		Student Book (English Version)	
	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)		
السوال*	نَاتَج التَّعلم/ معايرالأِداء**	Example/Exercise Page		
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6 Use properties of similar triangles to solve indirect measurement problems 1 to 11 527 + 528

 Becky casts a 7-foot shadow at the same time a nearby mailbox casts a 4-foot shadow. If the mailbox is 3 feet tall, how tall is Becky? (Example 1)

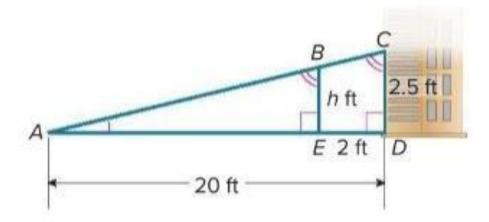


2. At the same time a $6\frac{1}{2}$ -foot tall teacher casts a 9-foot shadow, a nearby flagpole casts a $31\frac{1}{2}$ -foot shadow. How tall is the flagpole? (Example 1)



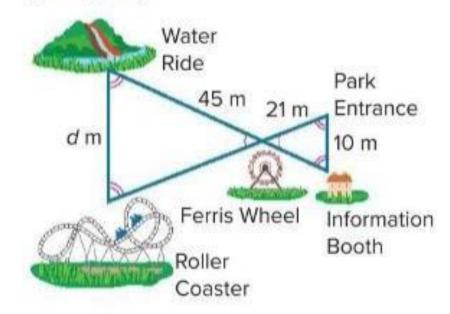
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S11	**************************************	Example/Exercise	المرجع في كتاب الطالب (النسخة Page المرجع في كتاب الطالب (النسخة المرجع في كتاب (النسخة الم
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6	Use properties of similar triangles to solve indirect measurement problems	1 to 11	527 + 528
	tion* الس	ناتج التعلم/ معايرالأداء**	tion* Learning Outcome/Performance Criteria** Example/Exercise السا مثال/تمرين

In the figure, △ABE is similar to △ACD.
 What is the height h of the ramp when it is 2 feet from the building? (Example 2)



4. In the figure, the triangles are similar. What is the distance d from the water ride to the roller coaster? Round to the nearest tenth.

(Example 2)



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السوال*	**-1-\$h	Example/Exercise	Page	
	ناتج التعلم/ معاييرالأداء**	مثال/تمرين	الصفحة	
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6	Use properties of similar triangles to solve indirect measurement problems	1 to 11	527 + 528
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5. If a 25-foot-tall house casts a 75-foot shadow at the same time that a streetlight casts a 60-foot shadow, how tall is the streetlight? 6. Table Item A child and a statue casts the shadow lengths shown at the same time. Complete the table to find the height, in feet, of the statue.

Object	Height of Object (ft)	Shadow Length (ft)
Emma	3.5	5.25
Statue		57

Question*		Learning Outcome (Reviews and Criterin 88		Reference(s) in the Student Book (English Version)			
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	6	Use properties of similar triangles to solve indirect measurement problems	1 to 11		527 + 528		

 Mr. Nolan's math class went out to measure shadows in their school yard.
 Their data is recorded in the table. Find the missing heights.

Person/Item	Shadow Length (ft)	Height of Person/ Item (ft)
Mr. Nolan	9	6
Flagpole	48	
School	63	
School Bus	16.5	

8. A map of a treasure hunt is shown. In the figure, the triangles are similar. What is the distance from the silver coins to the gold coins?



Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (English Version)			
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ناتج التعلم/ معاييرالأداء**	مثال/تمرين	الصفحة			
	6	Use properties of similar triangles to solve indirect measurement problems	1 to 11	527 + 528	
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9. Justify Conclusions Is the following statement true or false? Write an argument that can be used to defend your solution.
If two angles of one triangle are congruent to two angles of another triangle, then you

the length of a missing side.

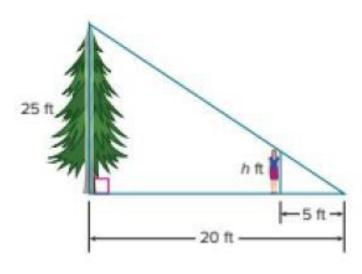
can use indirect measurement to determine

 Create Write and solve a real-world problem in which you would need to use shadow reckoning to determine the height of an object.

11. Find the Error A student used the proportion below to find the person's height h shown in the diagram. Find the student's mistake and correct it.

$$\frac{h}{5} = \frac{20}{25}$$

$$h = 4$$

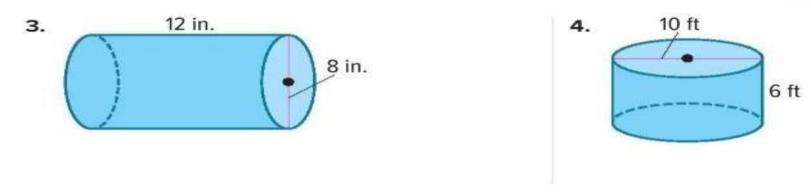


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				مثال/تمرين		الصفحة	
	7	Use the formula for the volume of a cylinder to find the volume of a cylinder given its diameter or radius and the height.		1 to 7		541	

Find the volume of each cylinder. Round to the nearest tenth. (Example 1)



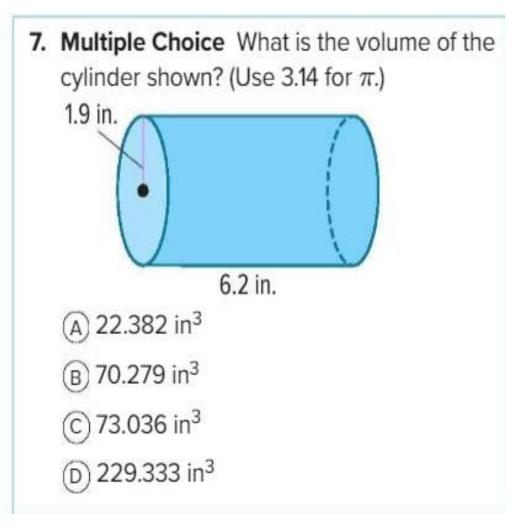
Find the volume of each cylinder. Express your answer in terms of π . (Example 2)



5. A wooden toy block is in the shape of a cylinder. The toy block has a height of 4 inches and a diameter of 3 inches. How much does the toy block weigh if 1 cubic inch of wood weighs 0.55 ounce? Round to the nearest tenth. (Example 3)

Question* Learning Outcome/Performance Criteria**		Learning Outcome/Performance Criteria**		Reference(s) in the Student Book (English Version)			
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				مثال/تمرين		الصفحة	
	7	Use the formula for the volume of a cylinder to find the volume of a cylinder given its diameter or radius and the height.		1 to 7		541	

6. A large rainwater collection tub is shaped like a cylinder. The diameter is 28 inches and the height is 40 inches. If the tub is 75% filled, what is the volume of water in the tub? Round to the nearest tenth.

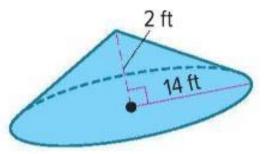


Overtice #	Learning Outcome/Performance Criteria**	Reference(s) in the	Student Book (English Version)
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* !!»!!	ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page
السوال*		مثال/تمرين	الصفحة

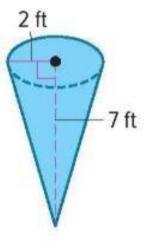
Find the volume of each cone. Express your answer in terms of π . (Example 1)

Use the formula for the volume of a cone to find the volume of a cone given its diameter or radius and the height.

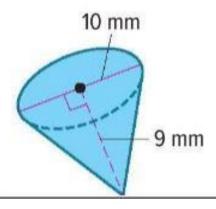
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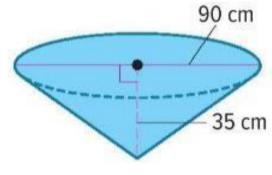




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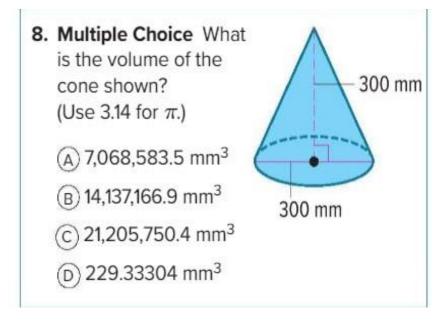
1 to 8

549

0*	Laurian Catanan / Partamanan Cabaria **	Reference(s) in the S	Student Book (English Version)
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السوال		مثال/تمرين	الصفحة
8	Use the formula for the volume of a cone to find the volume of a cone given its diameter or radius and the height.	1 to 8	549
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- 5. A funnel is in the shape of a cone. The radius is 2 inches and the height is 4.6 inches. What is the volume of the funnel? Round to the nearest tenth. (Example 2)
- 6. Marta bought a paperweight in the shape of a cone. The radius was 10 centimeters and the height 9 centimeters. Find the volume. Round to the nearest tenth. (Example 2)

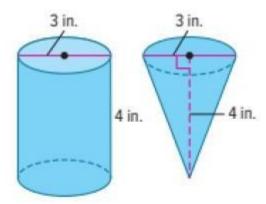
A lampshade is in the shape of a cone. The diameter is 5 inches and the height is
 6.5 inches. Find the volume. Round to the nearest tenth. (Example 2)



Question*	Lauring Outcome / Parformance Criteria **	Reference(s) in the Student Book (English Version)		
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السوال*	ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page	
		مثال/تمرين	الصفحة	

Use the formula for the volume of a cone to find the volume of a cone given its diameter or radius and the height.

9. A frozen yogurt shop offers frozen yogurt in the sizes shown. The cost per cubic inch is \$0.10 for each container's contents. What is the difference between the costs of yogurt in the two containers if each is filled with yogurt?



1 to 14

549 + 550

10. Cone A and Cone B both have a height of 5 inches. The volume of Cone A is 20.9 cubic inches. The volume of Cone B is 4 times the volume of Cone A. About how many times longer is the diameter of Cone B than the diameter of Cone A?

Question*		Learning Outcome/Performance Criteria**		Reference(s) in the Student Book (English Version)			
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*.11511	ناتج التعلم/ معايرالأداء**	Example/Exercise	Page				
السوال* -		· · · · · · · · · · · · · · · · · · ·	مثال/تمرين	الصفحة			
	9	Use the formula for the volume of a cone to find the volume of a cone given its diameter or radius and the height.	1 to 14	549 + 550			

- 11. Without calculating, which cone has a greater volume: one with a height of 6 inches and radius of 4 inches or one with a height of 4 inches and radius of 6 inches?
- 12. Find the volume of the cone with a height of 8 centimeters and a circumference of 18.84 centimeters. Round to the nearest tenth.

- 13. Justify Conclusions The volumes of a cylinder and a cone are equal. How many times greater is the height of the cone than the height of the cylinder? Write an argument that can be used to defend your solution.
- Find the Error A student found the volume of the cone shown. Find his mistake and correct it.

5 mm

3 mm

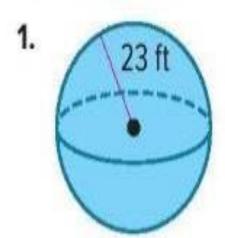
$$V = \frac{1}{3}\pi r^2 h$$

$$V = \frac{1}{3}\pi(6^2)(5)$$

$$V = 188.5 \text{ mm}^3$$

Questi	*	Learning Outcome/Performance Criteria**		Reference	(s) in the S	tudent Book (English Version)	
Questi	ion	Learning Outcome/Performance Citeria		ية)	المرجع في كتاب الطالب (الذ		
وال*	11	ناتج التعلم/ معاييرالؤداء**		Example/Exerci	se	Page	
- 0.9	,	T SISSING MARKET (200		مثال/تمرين		الصفحة	
	10	Use the formula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter.		1 to 8		557	

Find the volume of each sphere. Express your answer in terms of π . (Example 1)

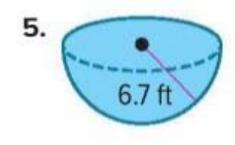


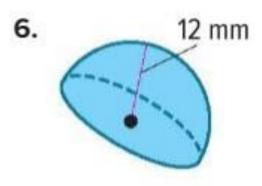
- 3. A necklace has a single spherical pearl with a radius of 2.1 millimeters. What is the volume of the pearl? Round to the nearest tenth. (Example 2)
- 4. The radius of a mini-basketball is 4 inches. A pump can inflate the ball at a rate of 6 cubic inches per second. How long will it take to inflate the ball? Round to the nearest tenth.

(Example 3)

O	estion*	Languing Outcome / Desferonce of Criteria **		(
Que	estion	Learning Outcome/Performance Criteria**	تجليزية)	المرجع في كتاب الطالب (النسخة الا	
*	السوال	ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page	
- (السوار	- 103/10 kg / kach (20	Example/Exercise مثال/تمرین	الصفحة	
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	10	Use the formula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter.	1 to 8	557	

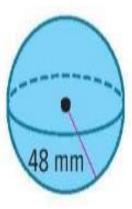
Find the volume of each hemisphere. Round to the nearest tenth. (Example 4)





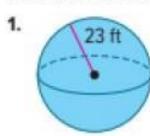
Reference(s) in the Student Book (English Version)

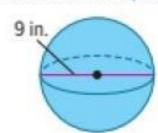
- 7. Olga is using spherical beads to create a border on a picture frame. Each bead has a diameter of 1.5 millimeters. Find the volume of each bead. Round to the nearest tenth.
- **8. Open Response** What is the volume of the sphere shown? (Use 3.14 for π .)



	Question*	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)			
السوال*		ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page		
		This you want to the same of t	مثال/تمرين	الصفحة		
	11	Use the formula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter.	1 to 8	557		

Find the volume of each sphere. Express your answer in terms of π . (Example 1)





- A necklace has a single spherical pearl with a radius of 2.1 millimeters. What is the volume of the pearl? Round to the nearest tenth. (Example 2)
- 4. The radius of a mini-basketball is 4 inches. A pump can inflate the ball at a rate of 6 cubic inches per second. How long will it take to inflate the ball? Round to the nearest tenth.

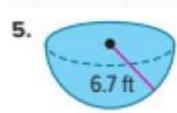
Reference(s) in the Student Book (English Version)

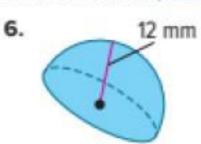
(Example 3)

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Question*	Learning Outcome/Performance Criteria**		المرجع في كتاب الطالب (النسخة الانجليزية)			
السوال*	نَاتَج التَّعلم/ معاييرالأِداء**	Example/Exerc	ise	Page		
السوال	- 105/ga / aas/ 20			الصفحة		
12	Use the formula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter.	nula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter. 1 to 8		557		
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- A necklace has a single spherical pearl with a radius of 2.1 millimeters. What is the volume of the pearl? Round to the nearest tenth. (Example 2)
- 4. The radius of a mini-basketball is 4 inches. A pump can inflate the ball at a rate of 6 cubic inches per second. How long will it take to inflate the ball? Round to the nearest tenth. (Example 3)

Find the volume of each hemisphere. Round to the nearest tenth. (Example 4)

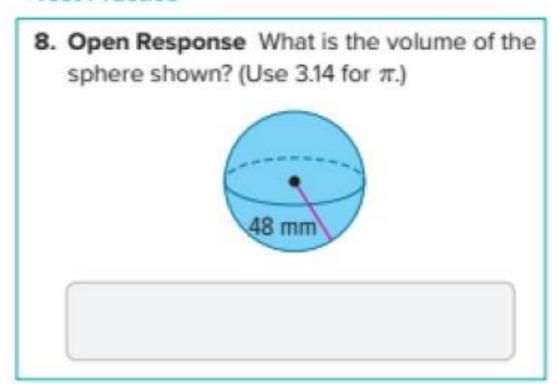




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Question*		Learning Outcome/Performance Criteria**		المرجع في كتاب الطالب (النسخة الانجليزية)			
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سوان-	"						
12		Use the formula for the volume of a sphere or hemisphere to find the volume of the figure given its radius or diameter.	1 to 8		557		

 Olga is using spherical beads to create a border on a picture frame. Each bead has a diameter of 1.5 millimeters. Find the volume of each bead. Round to the nearest tenth.

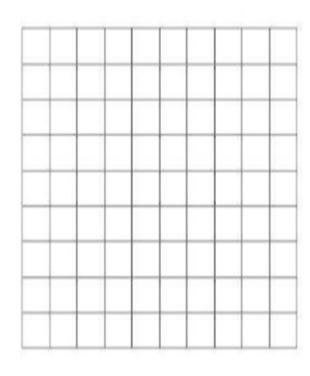
Test Practice



Question*		Learning Outcome/Performance Criteria**		Refere	ence(s) in the S	student Book (English Versio	on)
		tearning Outcome/Performance Criteria		المرجع في كتاب الطالب (النسخة الانجليزية)			
السوال*		نَاتَح التَّعلم/ معاييرالأِذَاء**		Example/Ex	ercise	Page	
		The state of the s		مثال/تمرين		الصفحة	
13		Use a set of bivariate data to construct a scatter plot and describe the association as positive or negative and as linear or nonlinear.		1 to 3		589	

 The table shows the average points scored per game by an NBA player in the first ten seasons of his career. Construct a scatter plot of the data. (Example 1)

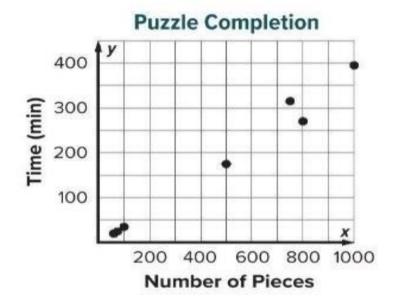
Season	1	2	3	4	5
Average Points Per Game	28.2	22.7	37.1	35.0	32.5
Season	6	7	8	9	10
Average Points Per Game	33.6	31.5	30.1	32.6	26.9



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Question*	Learning Outcome/Performance Criteria**	لخة الانجليزية)	المرجع في كتاب الطالب (النس
* tisti	ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page
السوال*	- 103/20 / Mach (20	مثال/تمرين	الصفحة

Use a set of bivariate data to construct a scatter plot and describe the association as positive or negative and as linear or nonlinear.

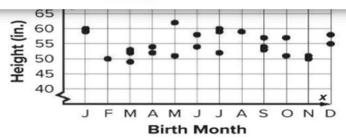
 The scatter plot shows the relationship between the number of pieces in a jigsaw puzzle and the number of minutes that are recommended to complete the puzzle. Interpret the scatter plot. (Example 2)



3. Multiple Choice The scatter plot shows the relationship between the birth month of every student in Mari's class and their height. Which is the best interpretation of the data? (Example 3)

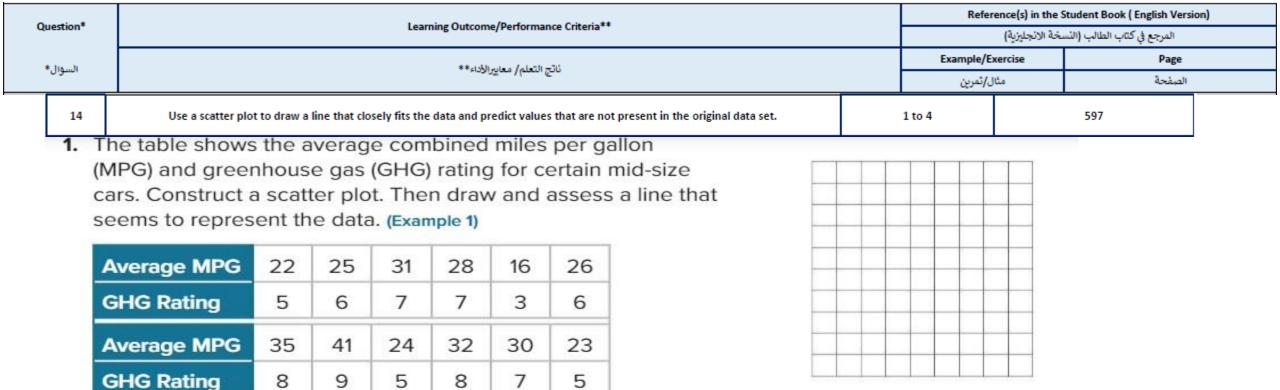
1 to 3

589



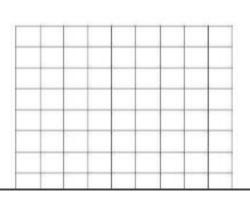
- As the months progress, the heights of the students increase. There is a positive, linear association. There are no clusters or outliers.
- B The height of a student does not depend on their birth month. The scatter plot shows no association.
- © As the months progress, the heights of the students decrease. There is a negative, linear association. There are no clusters or outliers.
- D As the months progress, the heights of the students are the same. There is a positive, linear association.

13



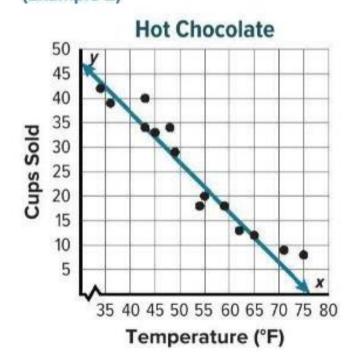
 The table shows the fat and Calorie content for several snack foods. Construct a scatter plot. Then draw and assess a line that seems to represent the data. (Example 1)

Fat (g)	1	6	7	8	12	18	20
Calories	200	222	239	274	338	339	385

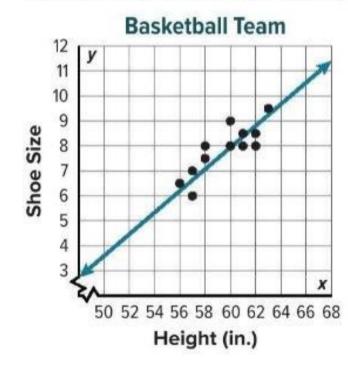


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Questi	ion	Learning Outcome/Performance Criteria**	المرجع في كتاب الطالب (النسخة الانجليزية)			
وال*	11	ئاتج التعلم/ معاييرالأناء**	Example/Exerc	ise	Page	
- 09	,	The state of the s	مثال/تمرين		الصفحة	
	14	Use a scatter plot to draw a line that closely fits the data and predict values that are not present in the original data set.	1 to 4		597	

3. The scatter plot shows the number of cups of hot chocolate sold at a football game and the average temperature during the game. Use the line of fit to make a conjecture about the number of cups of hot chocolate sold if the average temperature is 50°F. (Example 2)



4. The scatter plot shows the height and shoe size of the players on the boys' basketball team. Use the line of fit to make a conjecture about the shoe size of a boy on the team that is 59 inches tall. (Example 2)



Question*		Laureina Outanana / Paudanana - Critaria **		Refere	nce(s) in the S	tudent Book (English Versio	on)
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السوال*		ناتج التعلم/ معاييرالأداء**		Example/Ex	ercise	Page	
	السوار			مثال/تمرين		الصفحة	
	15	Construct and interpret a two-way table using relative frequencies.		1 to 3		617	

 Omar surveyed students at his school. He found that 23 students are in the Chess Club, and 8 of those students are in the Math Club. There are 19 students that are in the Math Club. Ten students are in neither club. Construct a two-way table summarizing the data. (Example 1)

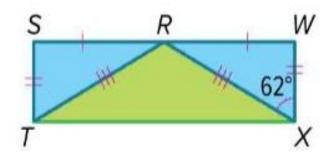
	Math Club	No Math Club	Total
Chess Club			
No Chess Club			
Total			

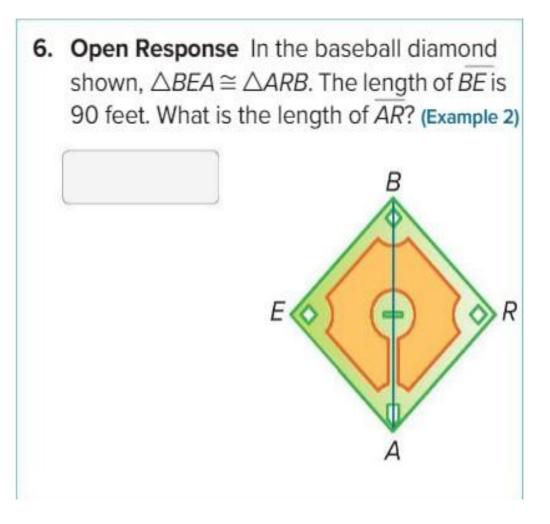
2. The table shows the results of a survey that asked seventh and eighth grade students whether they buy or pack their lunch. Find the relative frequencies. Round to the nearest hundredth. Are seventh graders or eighth graders more likely to buy their lunch? Explain. (Example 2)

	Buy Lunch	Pack a Lunch	Total
7th Graders	30	45	75
8th Graders	51	25	76
Total	81	70	151

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وال*	11	ئاتج التعلم/ معاييرالأداء**	Example/Exercise	Page	
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	2007			and the second s	
	16	Use the properties of rotations, reflections, and translations to identify congruent parts of congruent figures and to find missing measures.	1 to 6	499	

5. In the quilt design shown, $\triangle RST \cong \triangle RWX$. If $m\angle WXR = 62^\circ$, what is the measure of $\angle STR$? (Example 2)

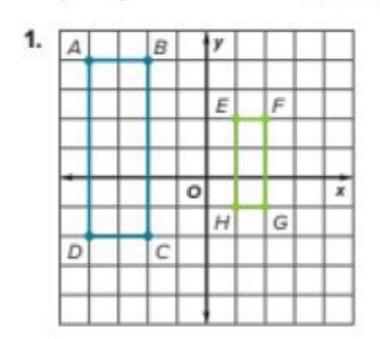


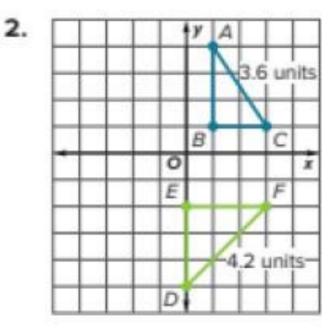


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Questi	on	Learning Outcome/Performance Criteria**	(3	سخة الانجليز	المرجع في كتاب الطالب (النس	
سوال*		نَاتِج التَّعلم/ معايرالأِداء**	Example/Exerc	ise	Page	
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1						1
- 1	17	Determine if two figures are similar by determining a sequence of rotations, reflections, translations, and dilations that maps one similar figure	1 to 5		511	

Determine if each pair of figures is similar. If so, describe a sequence of transformations that maps one figure onto the other figure. If not, explain why they are not similar. (Examples 1 and 2)

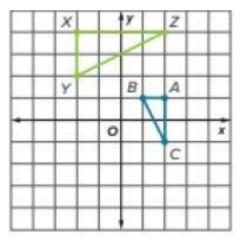
onto another.





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Questio	on*	Learning Outcome/Performance Criteria**	(2	مخة الانجليزيا	المرجع في كتاب الطالب (النس	
سوال*	.h	ناتج التعلم/ معاييرالؤداء**	Example/Exerc	ise	Page	
	٠,	This you have been	مثال/تمرين		الصفحة	
	17	Determine if two figures are similar by determining a sequence of rotations, reflections, translations, and dilations that maps one similar figure onto another.	1 to 5		511	,

 Triangle ABC is similar to △XYZ. Determine which sequence of transformations maps △ABC onto △XYZ. (Example 3)



4. Jenna is creating a mural for her bedroom wall. She would like to copy a picture that is 2 inches by 2.5 inches. She uses a copy machine to enlarge it by a scale factor of 4. Then she projects it on her wall by a scale factor of 12. What are the dimensions of the mural? Are the enlarged pictures similar to the original? (Example 4)

Test Practice

- 5. Multiple Choice Which sequence of transformations can be used to show that two figures are similar but not necessarily congruent?
 - (A) dilation and rotation
 - B translation and reflection
 - (C) reflection and rotation
 - (D) rotation and translation

0	:*	Lancing Outcome / Parformance Criteria **	Reference(s) i	in the Student Book (English Version)	
Questi	ion	Learning Outcome/Performance Criteria**	جليزية)	المرجع في كتاب الطالب (النسخة الاذ	
وال*	11	ناتج التعلم/ معاييرالأداء**	Example/Exercise	Page	
109		The state of the s	مثال/تمرين	الصفحة	
	18	Use the formula for the volume of a cylinder to find the volume of a cylinder given its diameter or radius and the height.	1 to 9	541 + 542	

8. A soup can, shaped like cylinder, has a diameter of 3.5 inches and a height of 5 inches. Each serving of soup is 15 cubic inches. If a can of soup this size costs \$1.99, what is the cost for each serving of soup? Round to the nearest cent.

9. A large water tank measures 6 feet across and 4 feet high. It is being filled with water at a rate of 10 gallons per minute. About how many hours will it take to fill the pool if 1 cubic foot of water is about 7.5 gallons? Round to the nearest tenth.

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Question*	Learning Outcome/Performance Criteria**	خة الانجليزية)	المرجع في كتاب الطالب (النس
السوال*	نَاتَج التَّعلم/ معايرالأِداء**	Example/Exercise	Page
الشوال	· · · · · · · · · · · · · · · · · · ·	مثال/تمرين	الصفحة

19 Use a set of bivariate data to construct a scatter plot and describe the association as positive or negative and as linear or nonlinear. 1 to 3 589

Apply

4. The table shows the relationship between the number of days of school missed by students and their semester grades. Interpret a scatter plot representing the data.

Days Missed	8	3	2	10	6	7	1	13	11	4
Semester Grade	70	84	92	72	72	81	95	71	69	80
Days Missed	1	13	4	6	3	5	12	3	6	2
Semester Grade	98	68	91	72	91	78	70	89	76	94

0	:*	Languing Outcome / Desferonce Criteria **	R	eference(s) in the	Student Book (English Version)	
Quest	ion	Learning Outcome/Performance Criteria**		نة الانجليزية)	المرجع في كتاب الطالب (النسخ	
وال*	11	نَاتِج التَّعلم/ معايرالأِدَاء**	Exampl	e/Exercise	Page	
109		The state of the s	رين	مثال/ت	الصفحة	
	20	Construct and interpret a two-way table using relative frequencies.	1 to 3		617	

3. The table shows the results of a survey about the number of bus riders at McGuffey Junior High. Find the relative frequencies. Round to the nearest hundredth. Are male students or female students more likely to not ride the bus? Explain. (Example 3)

	Male	Female	Total
Bus	110	84	194
No Bus	85	42	127
Total	195	126	321