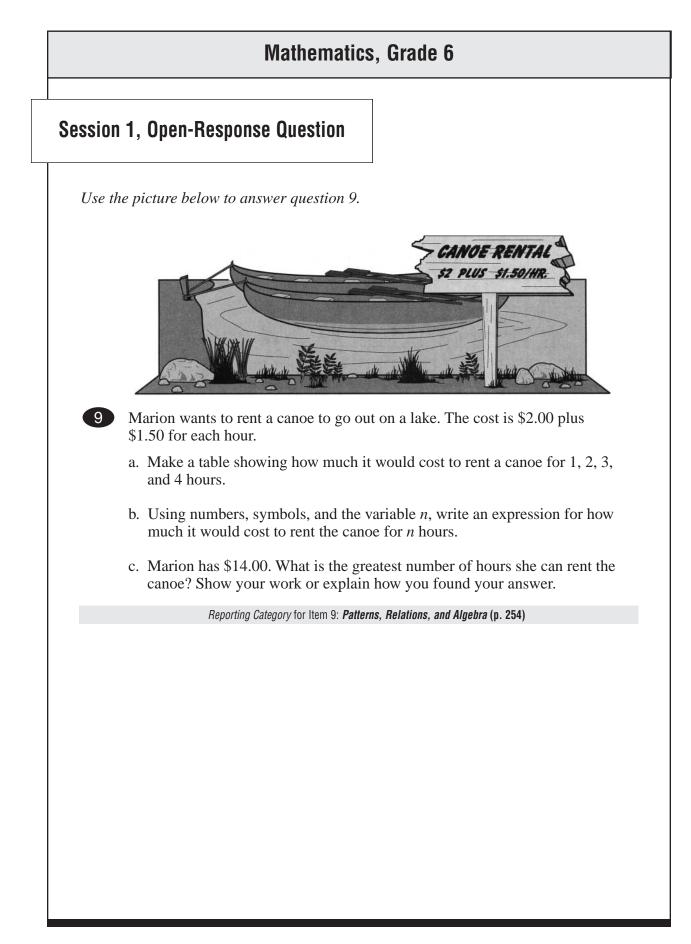


	Mathematics, Grade 6
5	Carlos is planning a birthday party. He and his friends will have dinner at a restaurant and then do an activity afterwards. His choices are listed below.
	Dinner: pizza, hamburgers, barbecue, or seafood
	Activity: skating, amusement park, or movie
	How many different combinations of dinner and activity are possible?
	A. 7
	B. 4
	C. 12
	D. 24
	Reporting Category for Item 5: Data Analysis, Statistics, and Probability (p. 256)

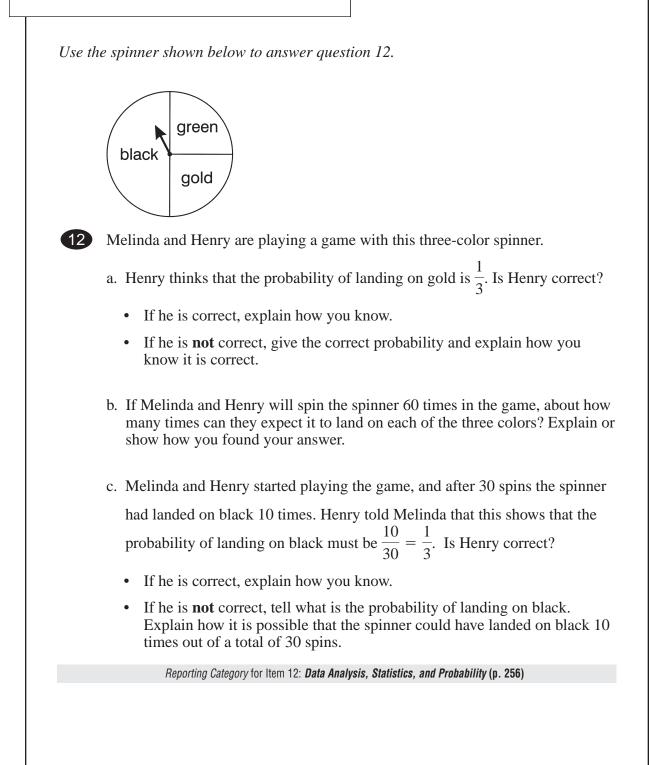
6 What does <i>m</i> equal in this equation?	3m means 3 times m
3m + 2 = 17	
	Correct Answer:
	5 or $m = 5$
Reporting Category for Item 6: Patterns, Relation	ons and Algebra (p. 254)
	nential notation.
	Correct Answer:
	$2^3 \times 3^2 \times 5^2$
Reporting Category for Item 7: Number Sense	and Anarations (n. 252)
8 What is the greatest common factor of 12 and	
what is the groutest common factor of 12 and	
	Correct Answer:
	4
Reporting Category for Item 8: Number Sense	and Operations (p. 253)



Session 1, Short Answer Questions	
10 Compute:	
$\frac{11}{12} - \frac{3}{8}$	
	Correct Answer:
	$\frac{13}{24}$
Reporting Category for Item 10: Nu	mber Sense and Operations (p. 253)
Use the ruler and protractor included in you	
letter P.	
	Correct Answer: Sample of Drawing
	Sample of Drawing
	Sample of Drawing P Answers will vary, provided
	Sample of Drawing P Answers will vary, provided that angle P is greater than 90°.
	Sample of Drawing P Answers will vary, provided that angle P is greater than 90°.
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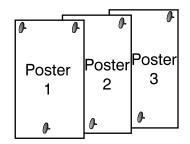




Mathematics, Grade 6

Session 2, Multiple-Choice Questions

Use the picture below to answer question 13.

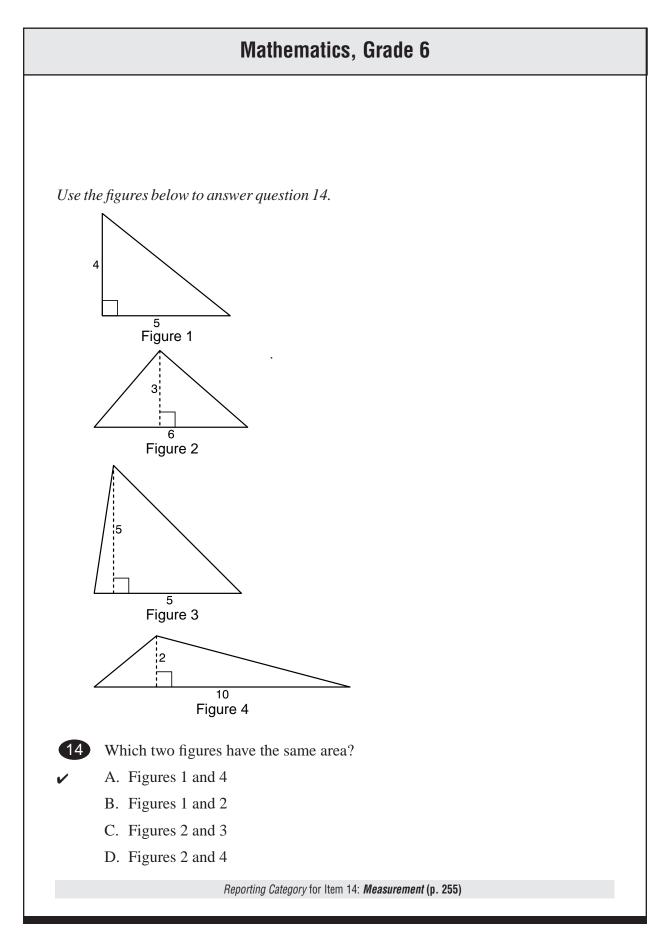


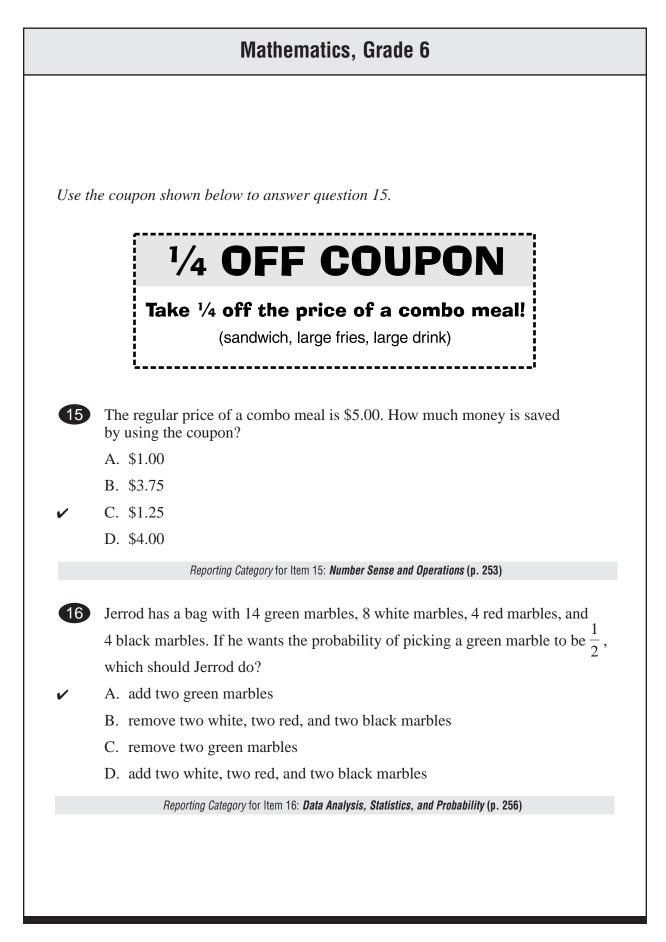
13

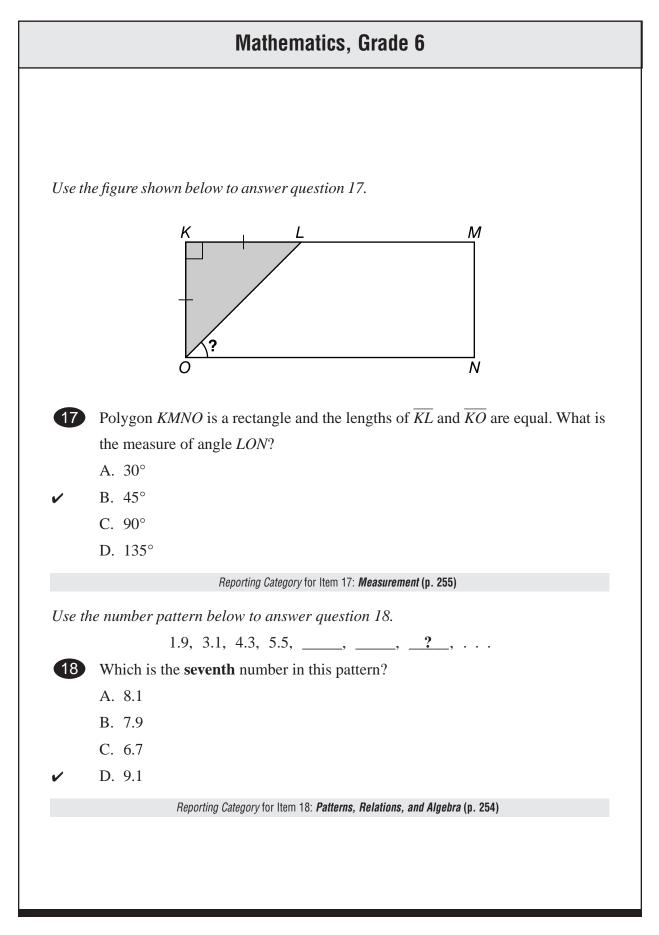
Ethan hung 12 posters in **one** row on his wall using tacks as shown in the picture above. Ethan used 3 tacks for the first poster. He used 2 tacks for each additional poster. How many tacks will he need to hang all 12 posters?

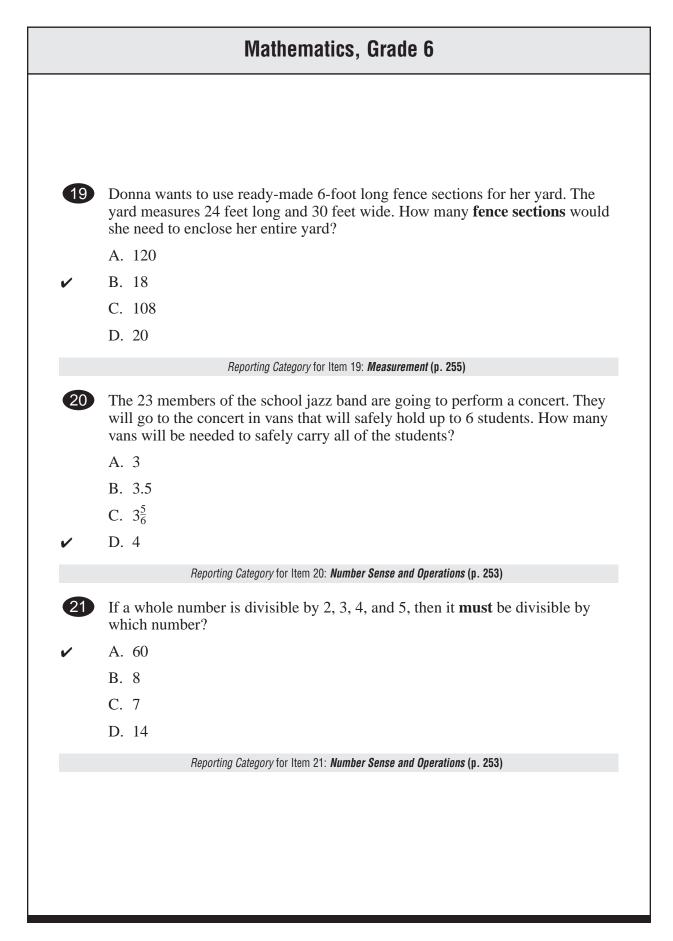
- A. 13
- B. 25
 - C. 12
 - D. 24

Reporting Category for Item 13: Patterns, Relations, and Algebra (p. 254)





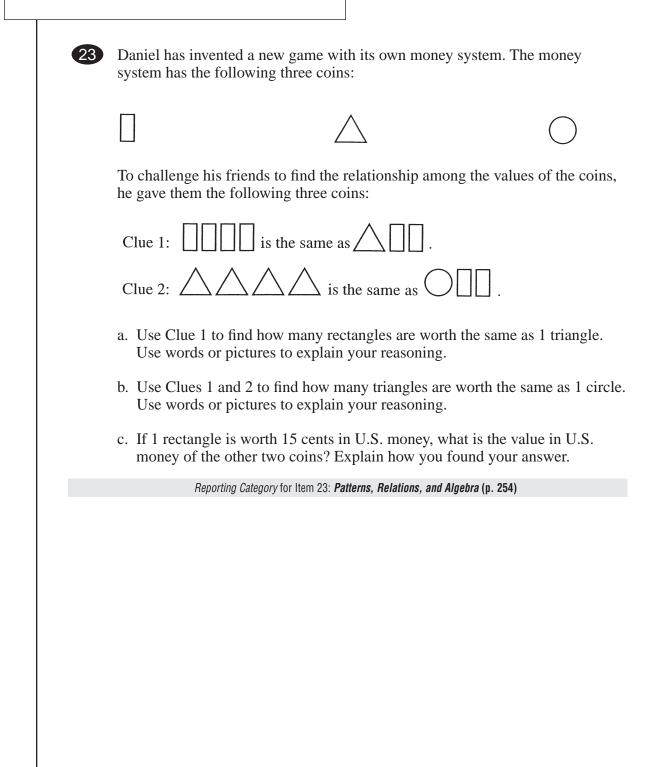




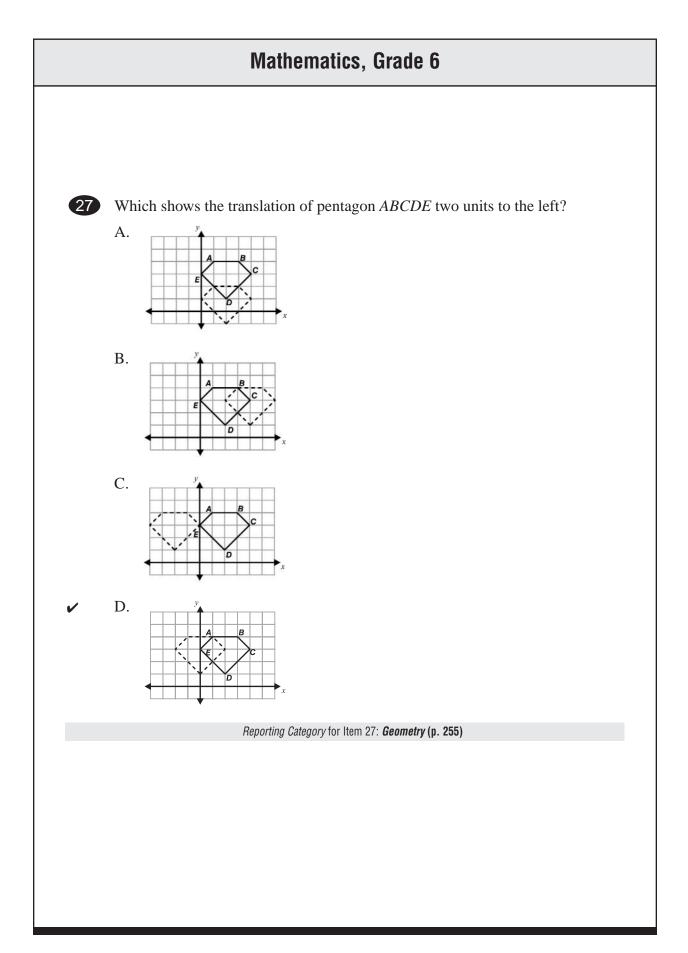
Mathematics, Grade 6		
22	Talia is thinking of a number. If she adds 6 to the number and divides the resulting number by 3, she will get 7. What is the original number?	
	A. 15	
	B. 3	
	C. 10	
	D. 16	
	Reporting Category for Item 22: Patterns, Relations, and Algebra (p. 254)	

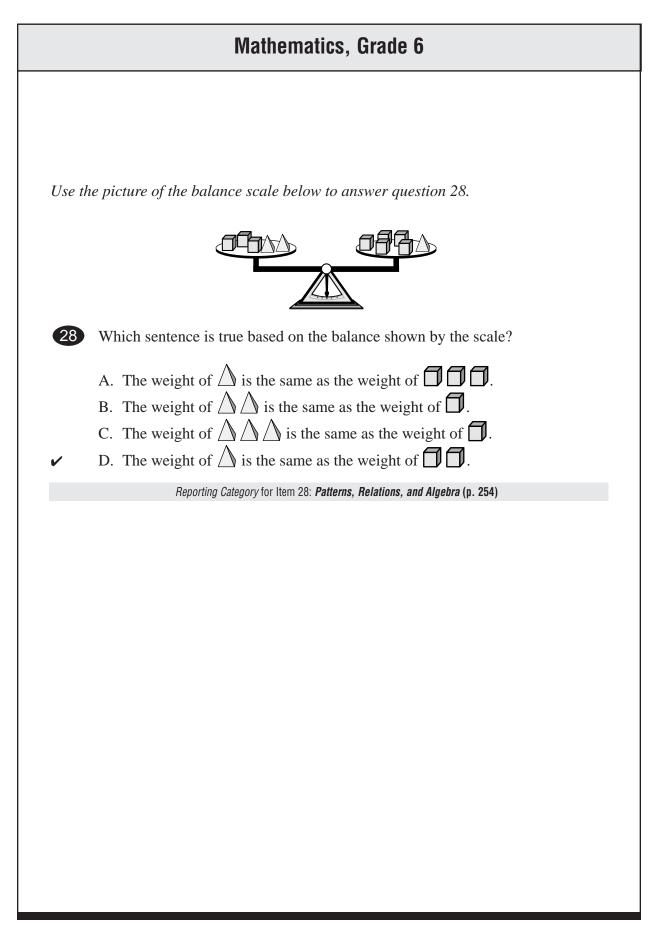
Mathematics, Grade 6

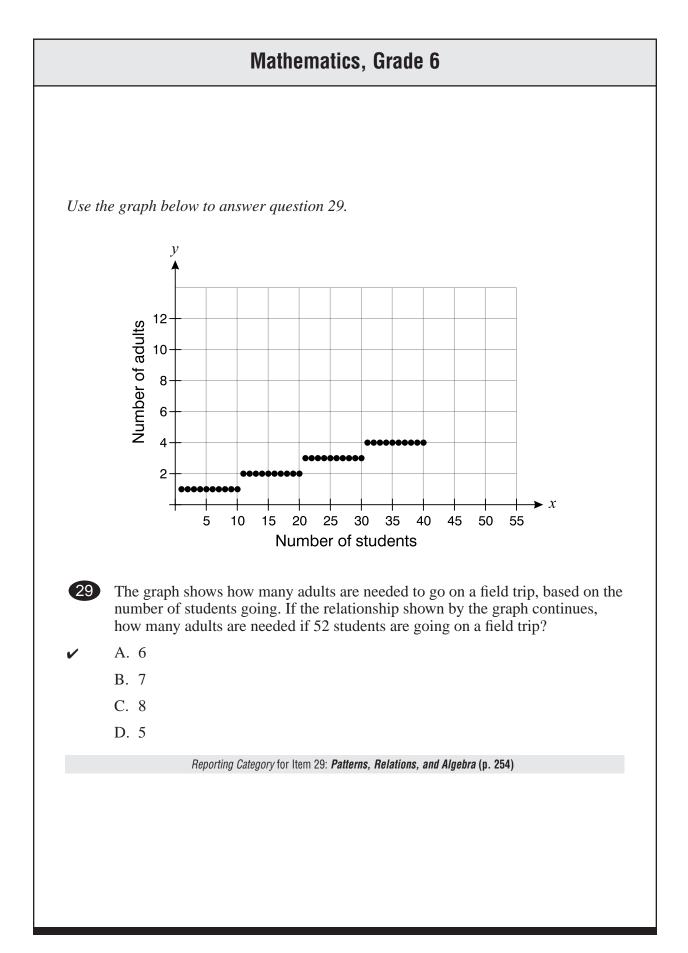
Session 2, Open-Response Question

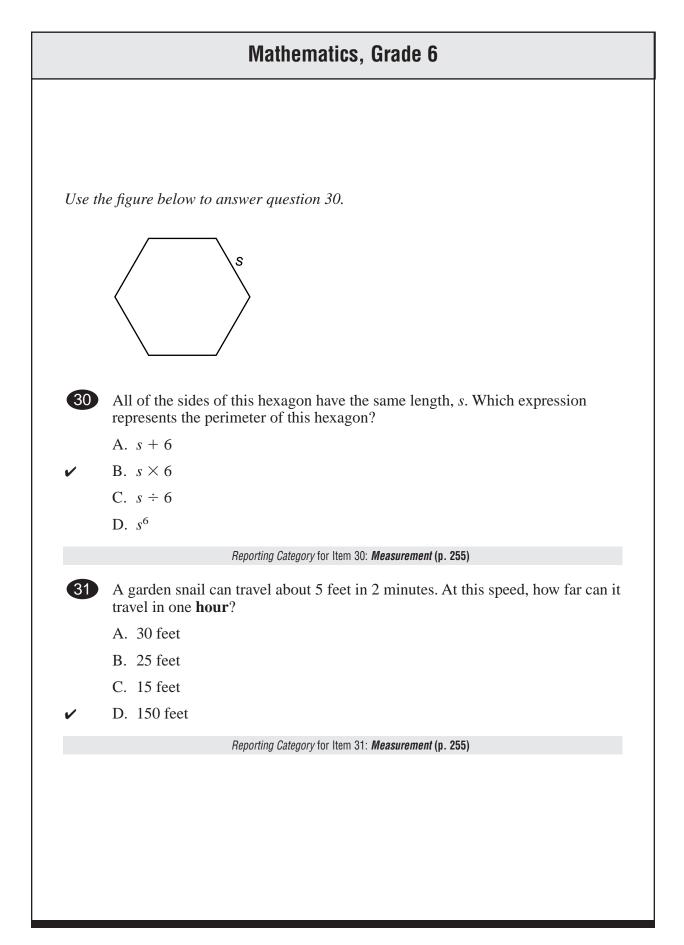


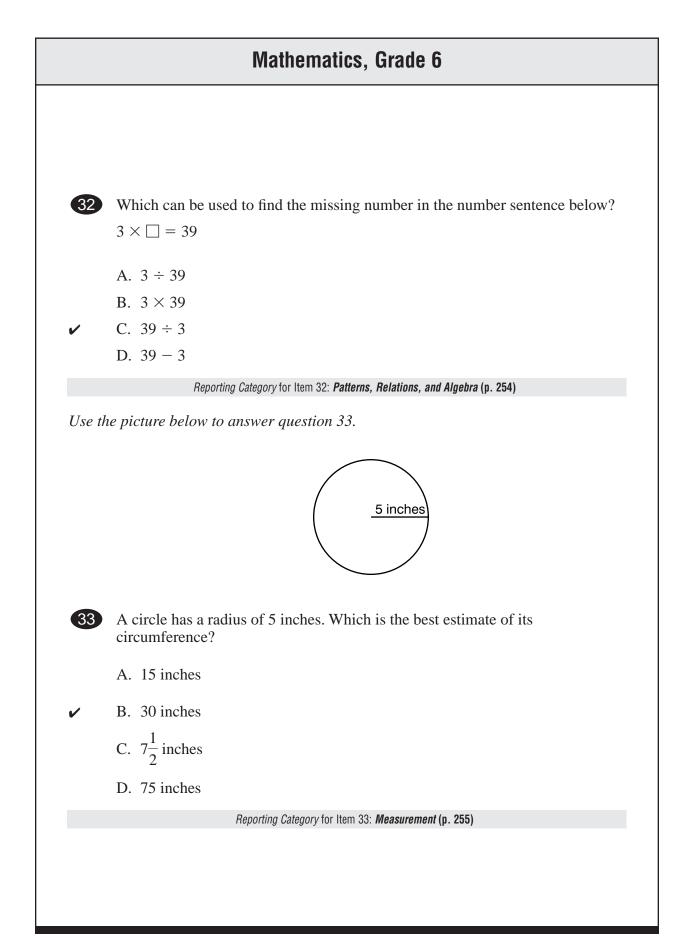
Mathematics, Grade 6 Session 3, Multiple-Choice Questions Use the pattern below to answer question 24. 24 How many line segments are needed to make the **fourth** figure in the pattern? A. 11 B. 13 C. 15 D. 17 Reporting Category for Item 24: Patterns, Relations, and Algebra (p. 254) 25 Ramona wants to take piano lessons. There are five piano teachers in her neighborhood. The prices the teachers charge for a half-hour lesson are: \$8, \$12, \$12, \$15, and \$18. What is the **mean** price for a half-hour lesson? A. \$8 B. \$10 C. \$12 D. \$13 Reporting Category for Item 25: Data Analysis, Statistics, and Probability (p. 256) A light year is approximately 6×10^{12} miles. What is another way to write this 26 number? A. 6,000,000,000,000 B. 6,000,000,000 C. 600,000,000,000 D. 60,000,000,000,000 Reporting Category for Item 26: Number Sense and Operations (p. 253)

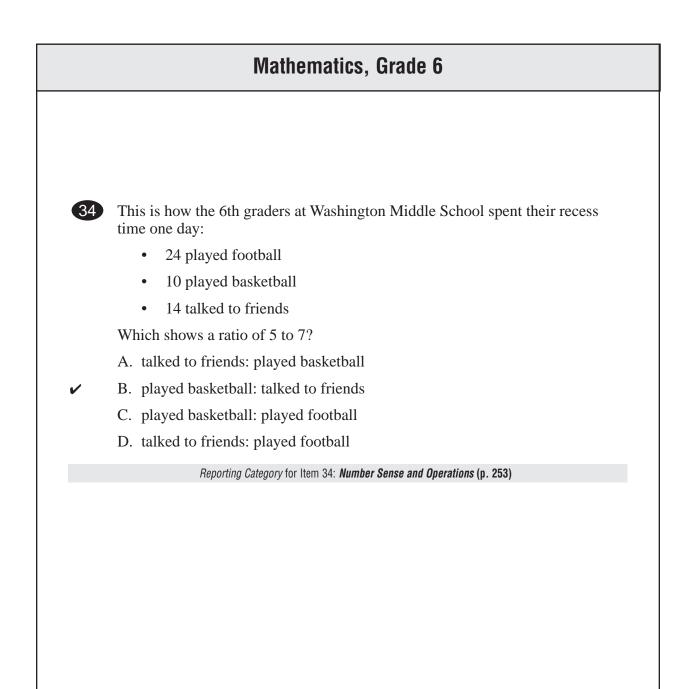


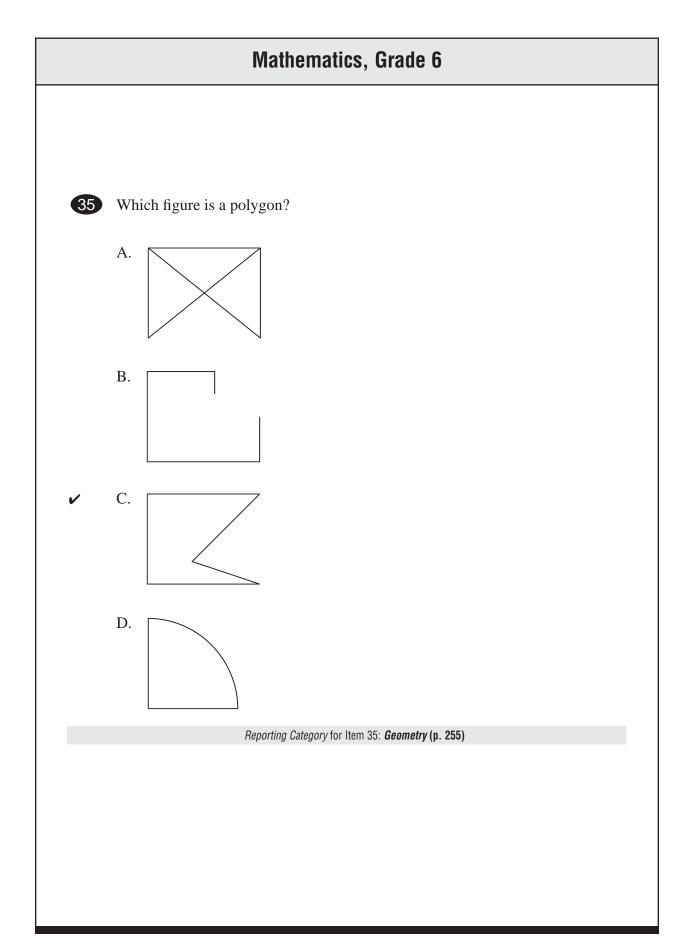


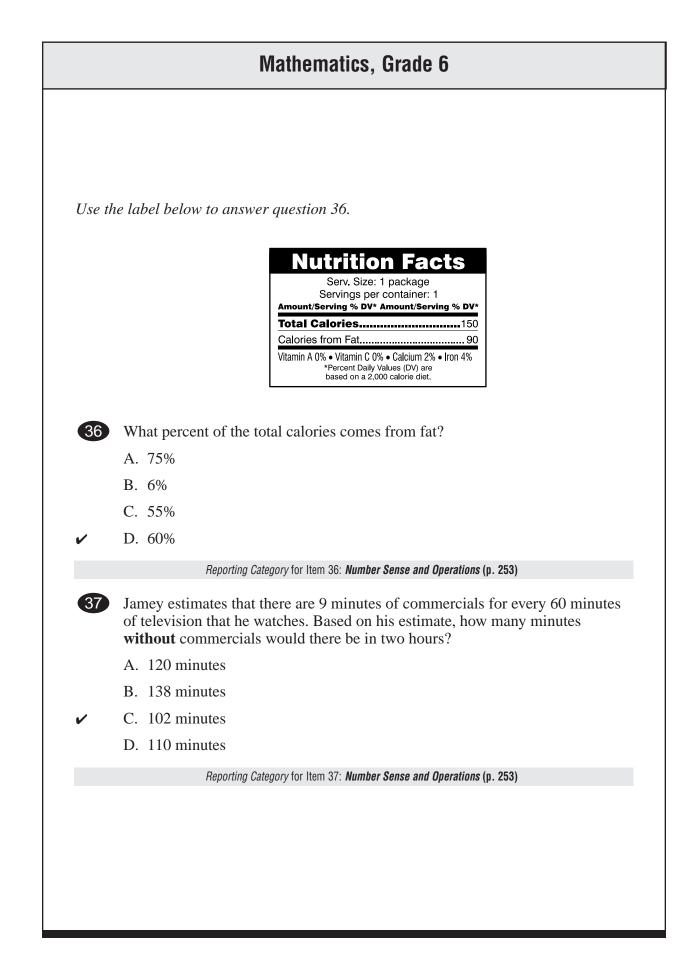












Mathematics, Grade 6

Session 3, Open-Response Questions

Use the ruler and protractor included in your reference sheet and the table below to answer question 38.

A **right** triangle has one right angle.

An isosceles triangle has at least 2 congruent sides.

An **acute** triangle contains three acute angles.

An obtuse triangle contains one obtuse angle.

38 a. Is it possible to draw a right triangle that is isosceles?

- If it is possible, draw such a triangle. Label the parts of the triangle that make it right and isosceles.
- If it is not possible, explain why it is not possible.

b. Is it possible to draw an acute triangle that is isosceles?

- If it is possible, draw such a triangle. Label the parts of the triangle that make it acute and isosceles.
- If it is not possible, explain why it is not possible.
- c. Is it possible to draw a right triangle that is obtuse?
 - If it is possible, draw such a triangle. Label the parts of the triangle that make it right and obtuse.
 - If it is not possible, explain why it is not possible.

Reporting Category for Item 38: Geometry (p. 255)

