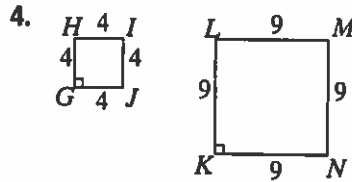
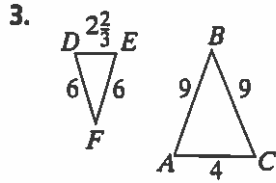
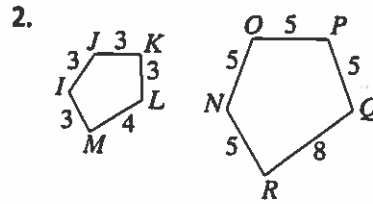
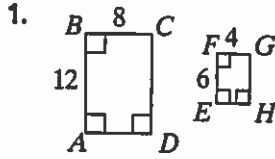


Practice 4-4

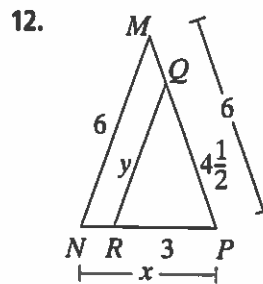
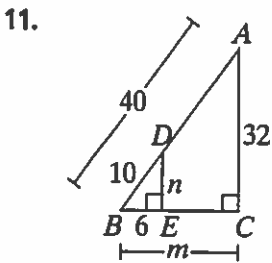
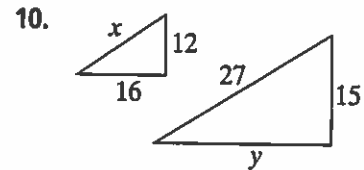
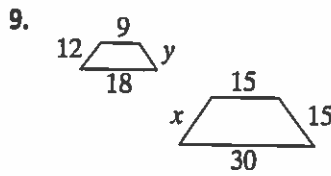
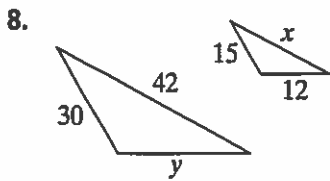
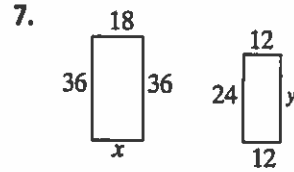
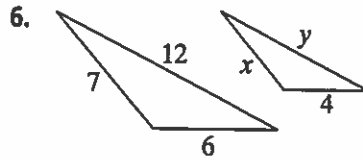
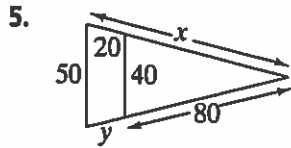
Similar Figures and Proportions

Tell whether each pair of polygons is similar. Explain why or why not.



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Exercises 5–12 show pairs of similar polygons. Find the unknown lengths.



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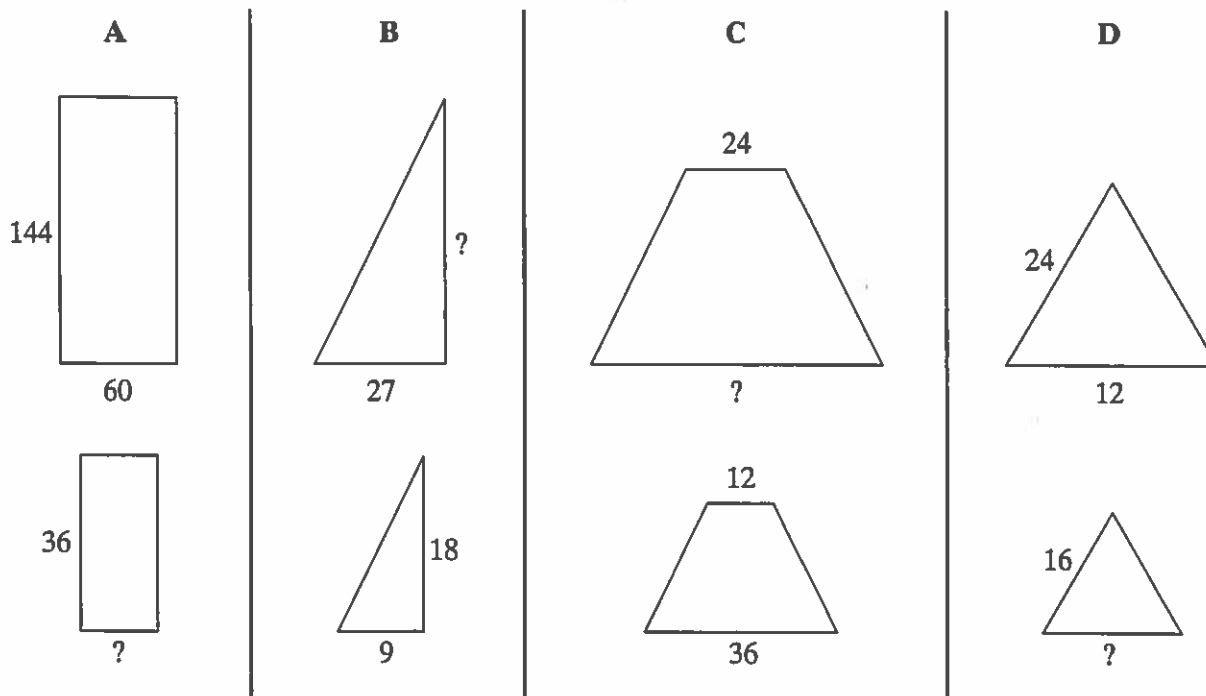
Solve.

13. A rock show is being televised. The lead singer, who is 75 inches tall, is 15 inches tall on a TV monitor. The image of the bass player is 13 inches tall on the monitor. How tall is the bass player?
14. A 42-inch-long guitar is 10.5 feet long on a stadium screen. A drum is 21 inches wide. How wide is the image of the drum on the stadium screen?

Puzzle 4-4

Similar Figures and Proportions

Use what you know about proportions and similar figures to calculate the length of the missing side in each pair of similar figures. The missing digits will tell the year that the first mathematics books were printed.



| | | | |
|----------|----------|----------|----------|
| | | | |
| _____ | _____ | _____ | _____ |
| A | B | C | D |

The first mathematics books were published in the year _____.

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