## Unit 7 Lesson 10: Angle Measurement and Perpendicular Lines

### WU Number Talk: Quotients (Warm up)

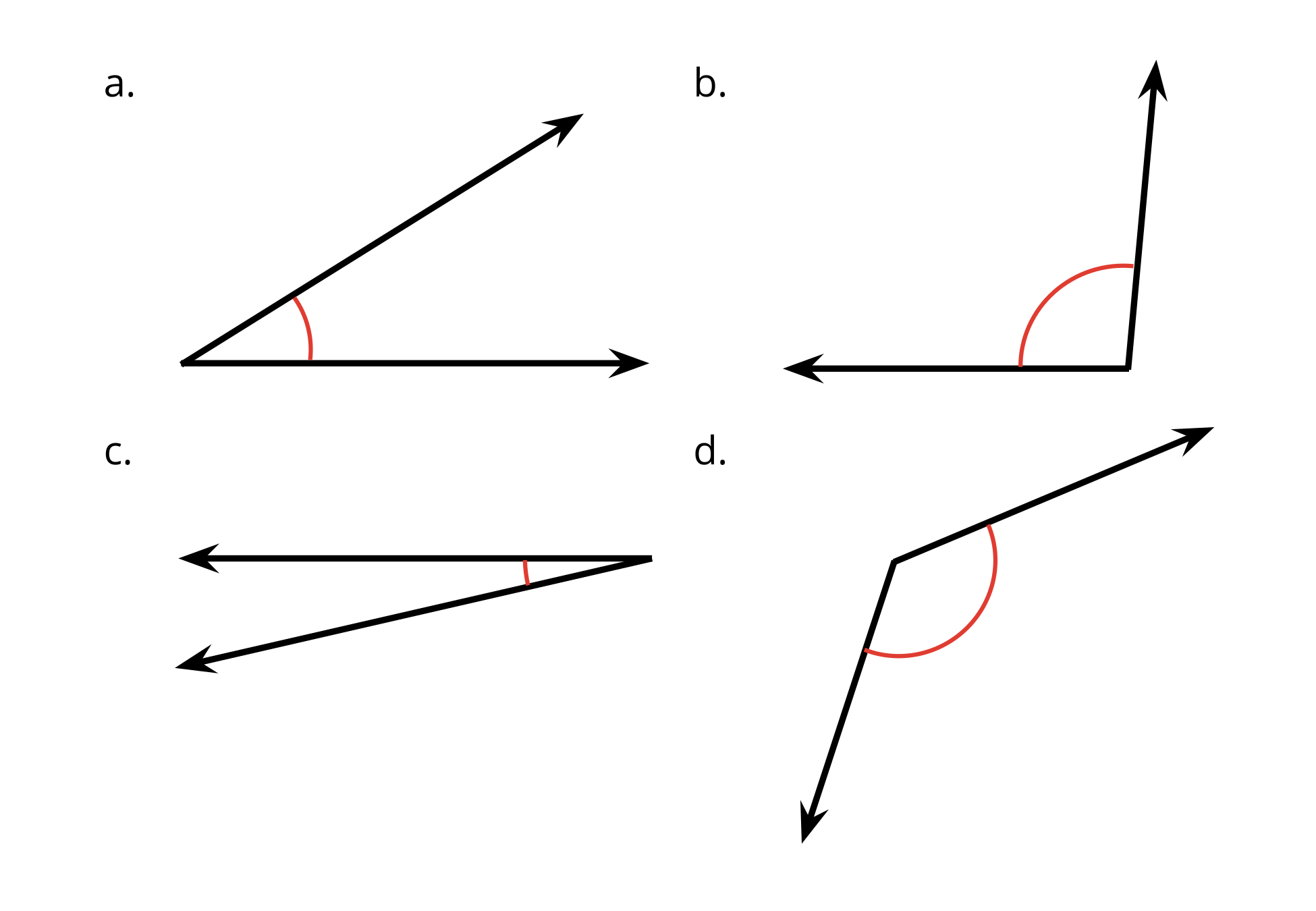
#### Student Task Statement

Find the value of each expression mentally.

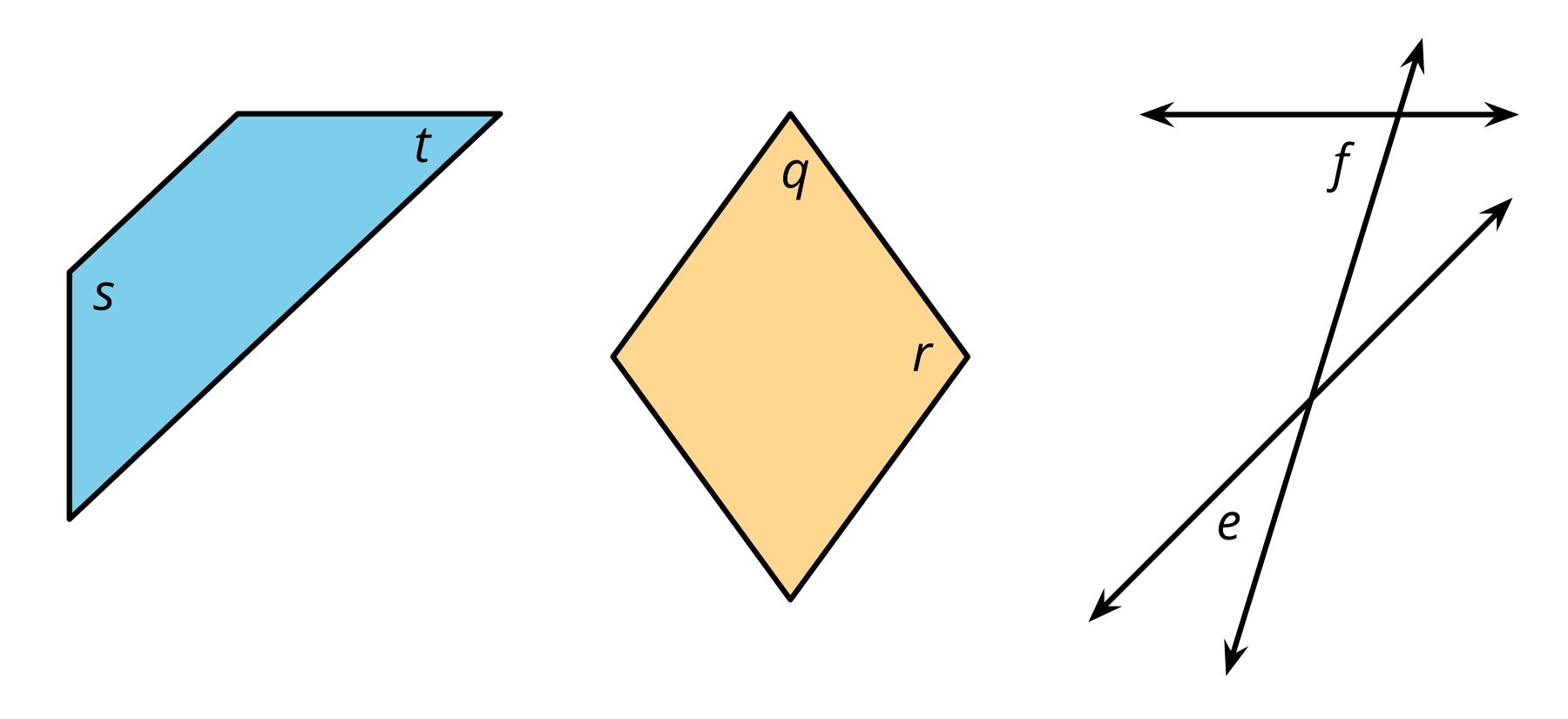
### 1 Angles Here, There, Everywhere

#### Student Task Statement

1. Use a protractor to find the value of each angle measurement in degrees.

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1. Use a protractor to measure the labeled angles in each figure.

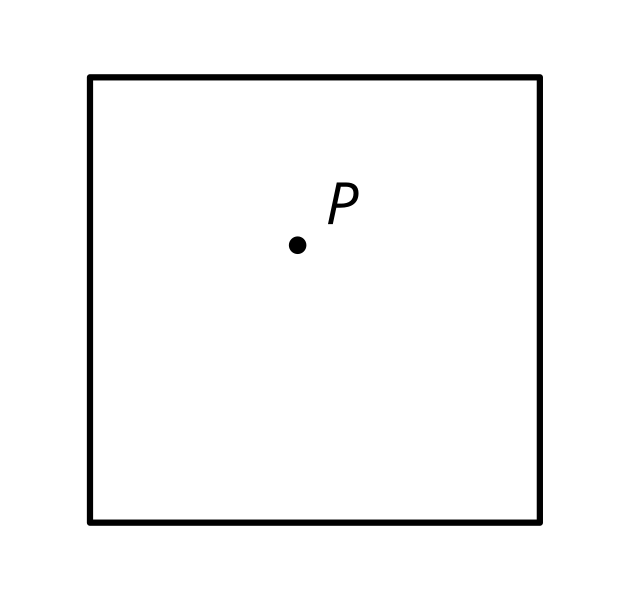
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### 2 A Folding Challenge

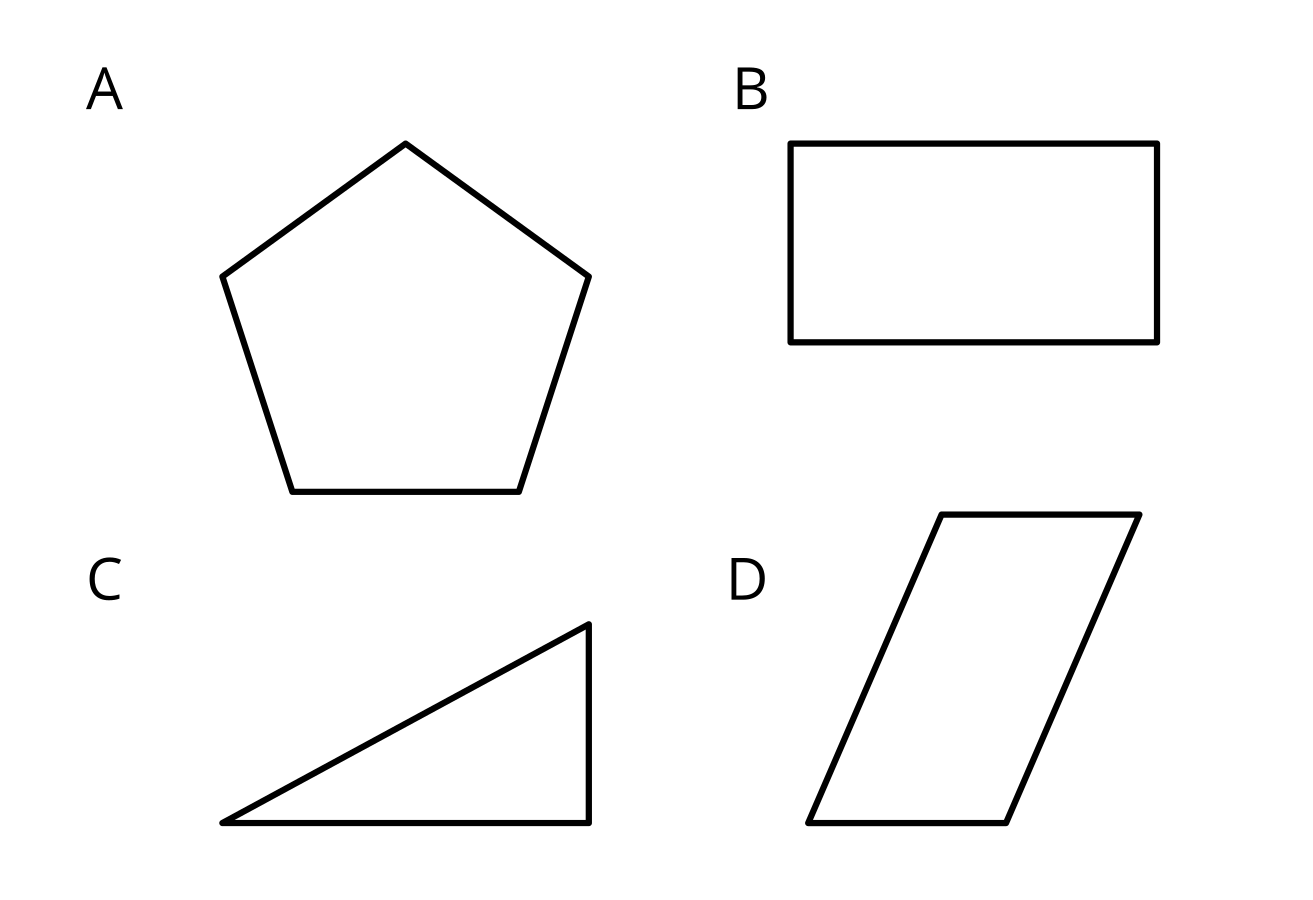
#### Student Task Statement

Tyler gave Lin a challenge: “Without using a protractor, draw four angles. All angles have their vertex at point .”

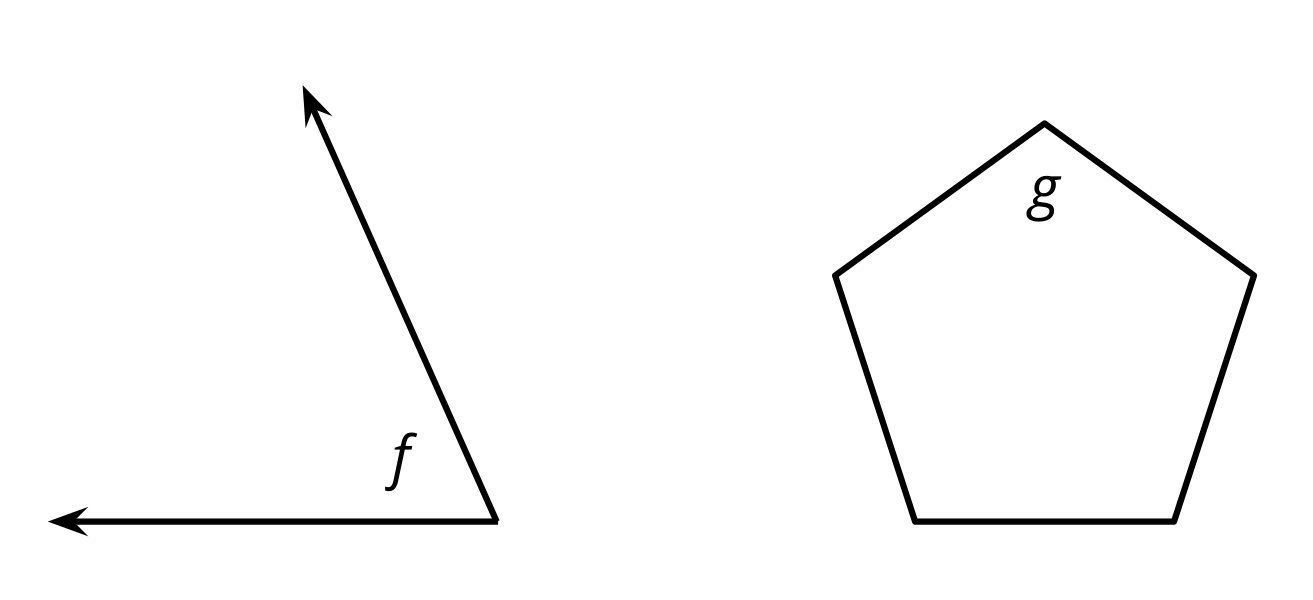
Lin folded the paper twice, making sure each fold goes through point . Then, she traced the creases.



1. Your teacher will give you a sheet of paper. Draw a point on it. Then, show how Lin might have met the challenge.
2. When Lin folded the paper, the creases formed a pair of **perpendicular lines**. What do you think “perpendicular lines” mean?
3. Use Lin’s method to create a new pair of perpendicular lines through the same point. Trace the creases with a different color. Be prepared to explain how you know the lines you created are perpendicular.
4. Which shapes have sides that are perpendicular to one another?

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* Mark the perpendicular sides. Be prepared to explain how you know the sides are perpendicular.

#### Images for Activity Synthesis





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