Read shape properties

Stage 04 | Select & Adapt | 8 mixed items

Stage 04: Work backward from a count

Select & Adapt

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. A prism has 16 vertices. How many sides does each base have?

2. A prism has 20 vertices. How many sides does each base have?

3. A prism has 6 vertices. How many sides does each base have?

4. A prism has 8 vertices. How many sides does each base have?

5. A prism has a 5-sided base. How many faces does it have?

6. A prism has a 6-sided base. How many edges does it have?

7. Diagnose an error. A prism has 16 vertices. How many sides does each base have? A learner answers “9”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A prism has 20 vertices. How many sides does each base have?

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.

Mr. Devonish