

Same Shape, New Angle

GRADE 10

SET 4

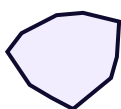
Name _____ Date _____

SKILL Visual processing - spatial visualisation, mental rotation

STRATEGY Fold the net in your head one face at a time. Opposite faces can never be seen together.

1 Same shape, turned

The shape on the left has been turned. Circle the one option that is exactly the same shape.



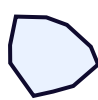
FIND THIS



A



B



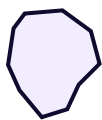
C



D



E



FIND THIS



A



B



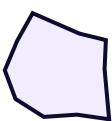
C



D



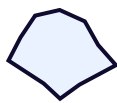
E



FIND THIS



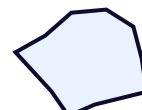
A



B



C



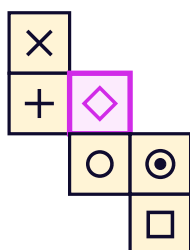
D



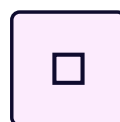
E

2 What is on the other side?

The marked face is highlighted. Circle the symbol that ends up on the opposite face of the cube.



A



B



C



D

Same Shape, New Angle

GRADE 10

SET 4

Name _____ Date _____

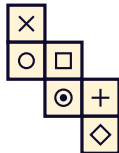
SKILL Visual processing - spatial visualisation, visual matching

STRATEGY Check one pair of opposite faces first. It rules out most of the column in a single look.

3 Find the pairs

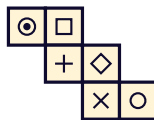
Every net on the left folds into one cube on the right. Draw a line to join each pair.

1



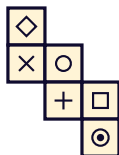
A

2



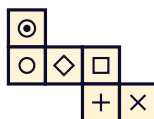
B

3



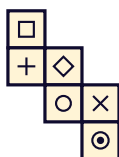
C

4



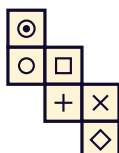
D

5



E

6



F

TRY THIS

Say out loud what you looked for before you drew each line. Naming it makes it easier to find next time.

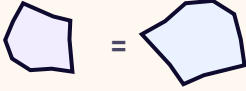
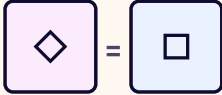
Answer key

GRADE 10

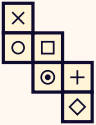
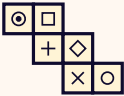
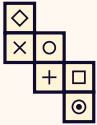
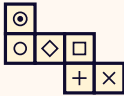
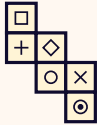
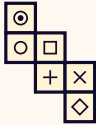
SET 4

The correct answer is drawn for every question, not just its letter. For the adult marking the sheet.

Page 1 sections 1 and 2

Q1a  A the target, turned 244°	Q1b  C the target, turned 298°	Q1c  D the target, turned 217°	Q2  B these two faces are opposite
--	--	---	--

Page 2 section 3, the matching pairs

  1 = F	  2 = C	  3 = E	  4 = B	  5 = A	  6 = D
---	---	---	---	---	---

TALKING POINT

Ask how they decided. Naming the method - "I followed the longest edge", "I checked which face was opposite" - is what carries over to maps, diagrams and geometry. The score on the page is not the part that transfers.