

Spatial reasoning aptitude test

Answer sheet for teachers.

Context

Aptitude tests are one of the most common ways for employers to assess an applicant's ability to carry out specific tasks. They are also used to ascertain how potential employees react in certain situations, and their overall suitability for a role.

There are a number of different aptitude tests.

Employers use aptitude tests from a range of sources and may focus more heavily on certain tests, such as numerical or mechanical reasoning.

Following the tests, employers will compare the results across the board and use them to help decide which candidates to progress to the next stage of the application process.

Instructions:

Students should save the file to their desktop and open it using Adobe Acrobat Reader in order to save the content.

Source Acknowledgement:

Diagrams sourced from *How to Win at Aptitude Tests Vol II* by Ian Maitland (paperback, 1997), for:

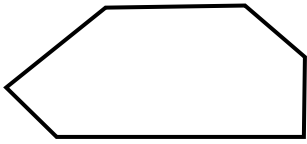
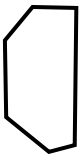


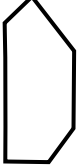

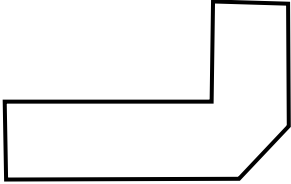
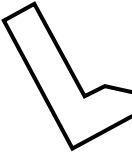
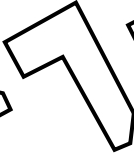
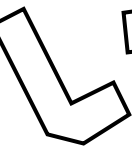

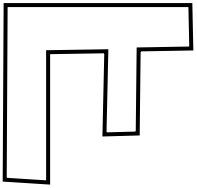
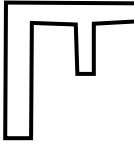
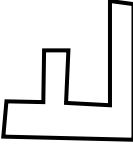
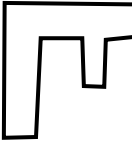
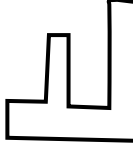
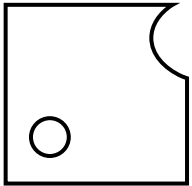
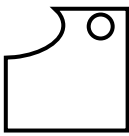
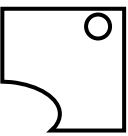
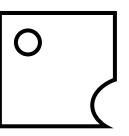

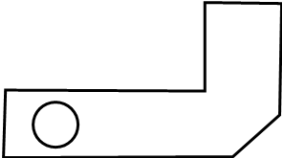
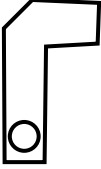
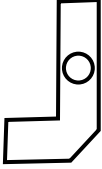
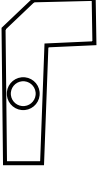
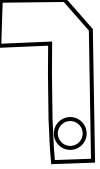
- Matching the symbol Questions 1-4
- Odd one out Questions 4 -5
- Symbol series Questions 1-2
- Solid object (templates) Question 2
- Shape identification Question 1 – 2

Diagrams sourced from *The Amazing 1000 Puzzle Challenge* General Editor: Robert Allen, Carlton Books Limited, 2003 for:

- Matching symbol Questions 3-4
- Odd one out Question 1,3 & 6
- Symbol series Question 3 & 4

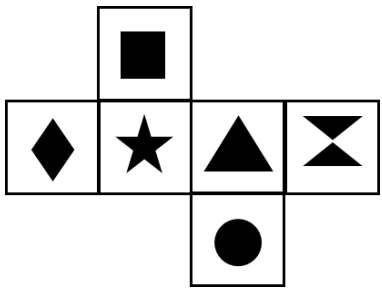
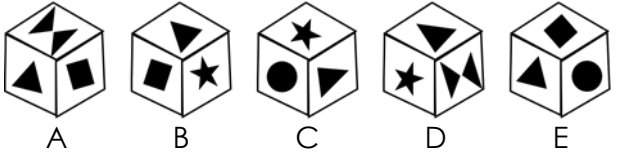
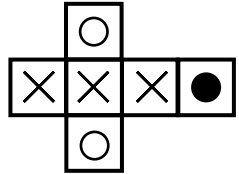
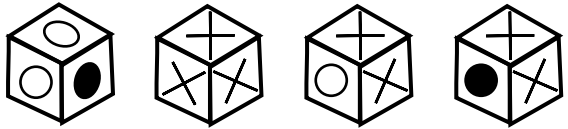
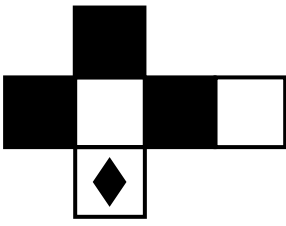
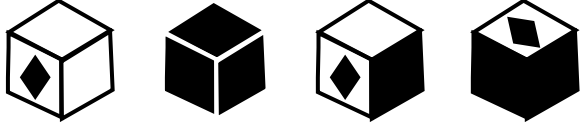
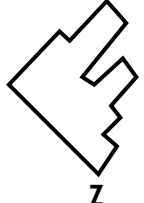
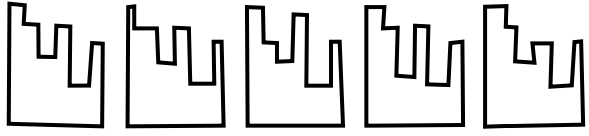
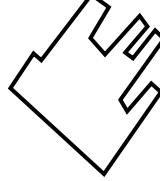
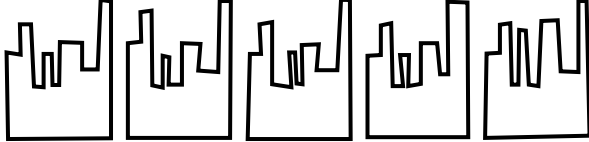
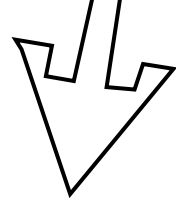
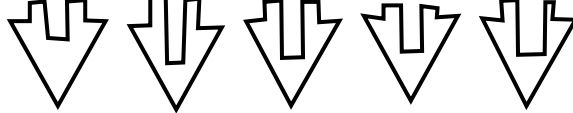
Disclaimer: The material contained in these practice resources has been compiled to prepare students who are seeking employment within the mining and energy sectors. It is to be used as a guide only and should not be relied upon as a definitive body of work. Students should seek additional sources of assistance and information. No liability or responsibility is taken for any student's aptitude testing outcome.

Spatial Reasoning:

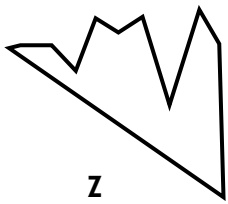
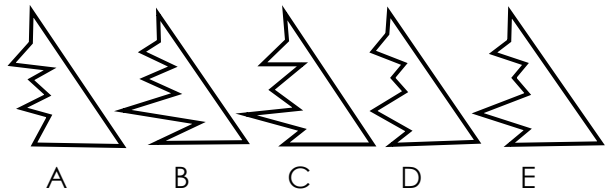
For each of the following questions select the shape that matches the shape in the left-hand column. Select your answer.		
1. Answer D.		     <p>A B C D E</p>
2. Answer C.		    <p>A B C D</p>
3. Answer D.		    <p>A B C D</p>
4. Answer C.		    <p>A B C D</p>
5. Answer A.		    <p>A B C D</p>

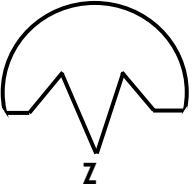



For each of the following questions identify the solid form (cube) that can be made from the template. Select your answer.

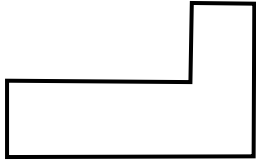
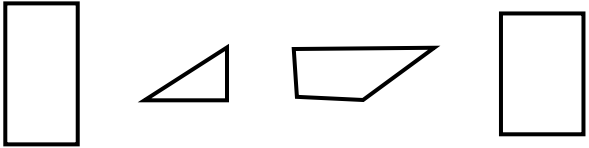
<p>1</p> <p>Answer C</p>		 <p>A B C D E</p>
<p>2</p> <p>Answer C</p>		 <p>A B C D</p>
<p>3</p> <p>Answer C</p>		 <p>A B C D</p>
<p>In each of the following questions find the shape that will fit together with shape Z. Select your answer.</p>		
<p>1</p> <p>Answer A</p>	 <p>Z</p>	 <p>A B C D E</p>
<p>2</p> <p>Answer B</p>	 <p>Z</p>	 <p>A B C D E</p>
<p>3</p> <p>Answer C</p>	 <p>Z</p>	 <p>A B C D E</p>

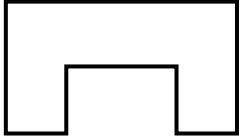
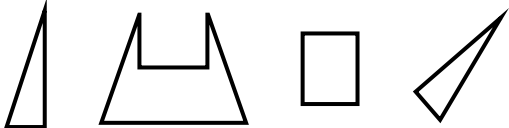


<p>4</p> <p>Answer E</p>		
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<p>5</p> <p>Answer C</p>		
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Shape **Z** is made up of three of the four smaller shapes, select the shape A,B,C or D that will **NOT** form the shape Z circle

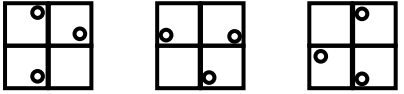
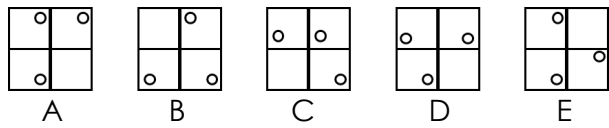


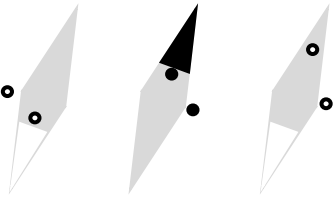
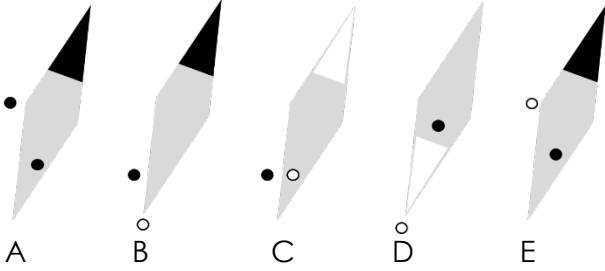
<p>1.</p> <p>Answer D</p>		
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<p>2.</p> <p>Answer C</p>		
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For each of the following sets, which symbol comes next? Select your answer A,B,C,D or E.

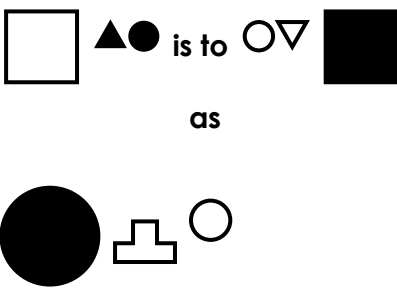
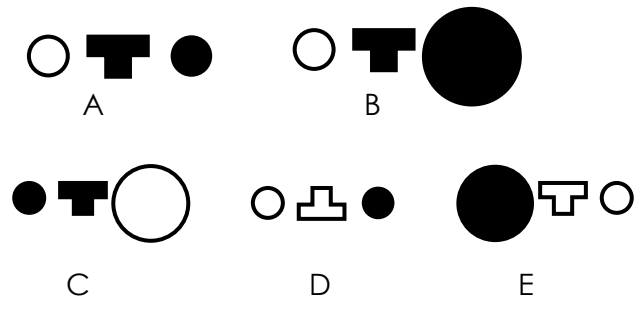
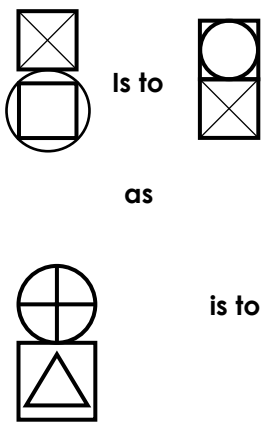
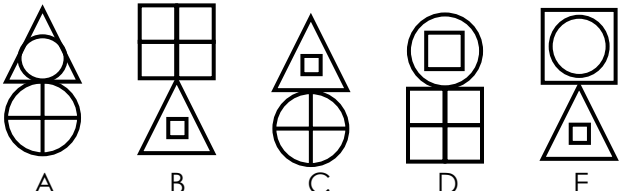
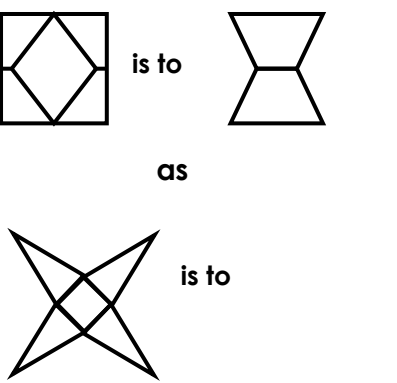
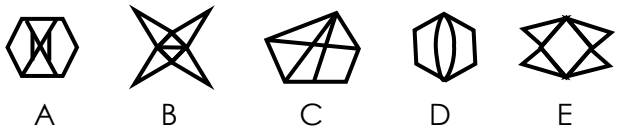
<p>1</p> <p>Answer D</p> <p>The symbol rotates anti-clockwise</p>		
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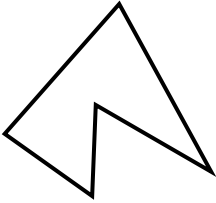
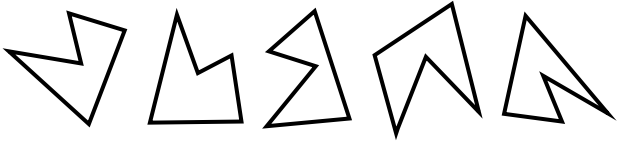
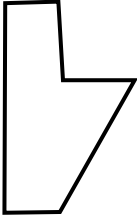
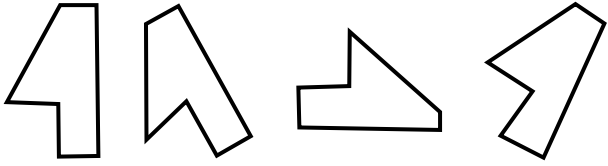
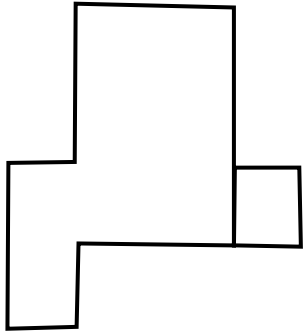
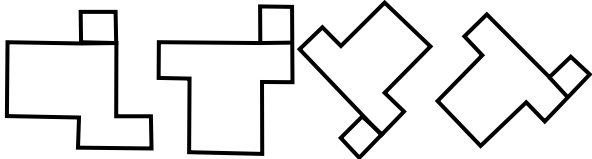
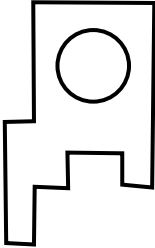
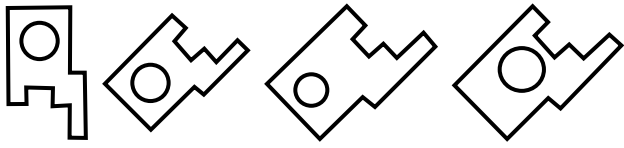
<p>2</p> <p>Answer D</p> <p>The symbol rotates clockwise</p>		
<p>3</p> <p>Answer B</p> <p>The largest shape changes through the pattern, the next in the series is a square. The most recent large shape becomes the small single white shape, and the second most recent large shape becomes the two white shapes.</p>		
<p>4</p> <p>Answer A</p> <p>The shape rotates clockwise with the end and dots changing colour</p>		



For each of the following sets identify and match the symbol to complete the set. Select your answer.

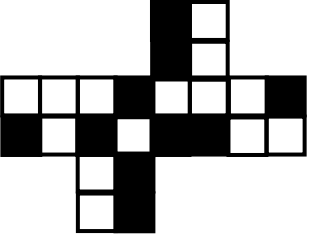
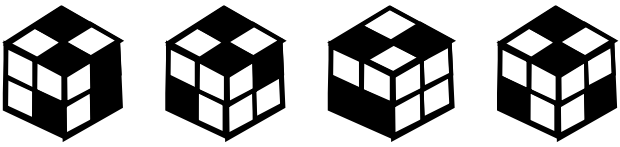
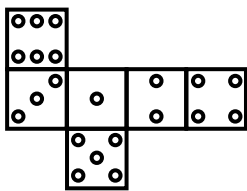
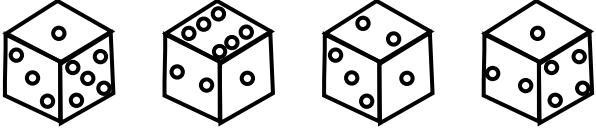
<p>1</p> <p>Answer C</p> <p>The symbol set mirrors and flips and changes colour</p> <p>Is to</p>	 <p>is to</p> <p>as</p> <p>is to</p>	 <p>A B C D E</p>
<p>2</p> <p>Answer C</p> <p>Top symbol moves to the bottom, bottom symbol moves to the top, and the small shape and large shape swap sizes</p>	 <p>is to</p> <p>as</p> <p>is to</p>	 <p>A B C D E</p>
<p>3</p> <p>Answer E</p> <p>The symbol divides in half, rotates clockwise and joins the other half.</p>	 <p>is to</p> <p>as</p> <p>is to</p>	 <p>A B C D E</p>



For each of the following questions select the shape in the second column that is the same as the shape in column one. Select your answer		
<p>1</p> <p>Answer</p> <p>A</p>		 <p>A B C D E</p>
<p>2</p> <p>Answer</p> <p>A</p>		 <p>A B C D</p>
<p>3</p> <p>Answer</p> <p>A</p>		 <p>A B C D</p>
<p>4</p> <p>Answer</p> <p>B</p>		 <p>A B C D</p>



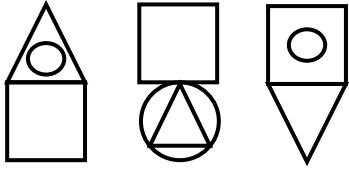
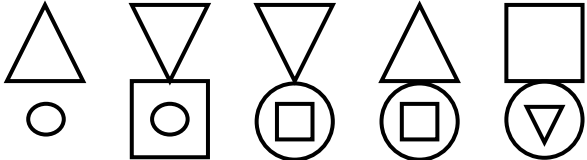

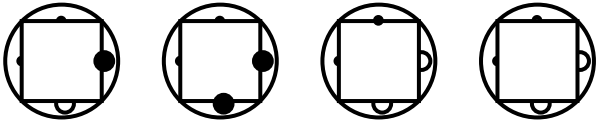
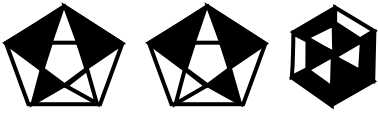
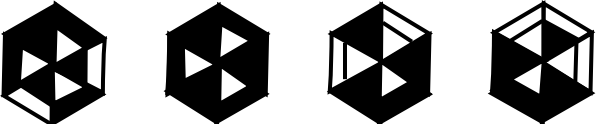


For the following questions identify the solid form (cube) that can be made from the template. Select your answer


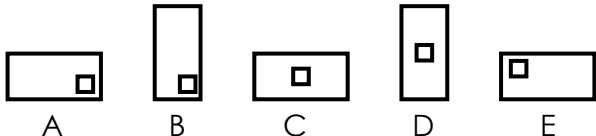
<p>1</p> <p>Answer</p> <p>A</p>		 <p>A B C D</p>
<p>2</p> <p>Answer</p> <p>A</p>		 <p>A B C D</p>



For the following sets, which symbol comes next? Select your answer.

<p>1 Answer B</p> <p>The stripes move towards the centre and then back out.</p>		 <p>A B C D E</p>
<p>2 Answer C</p> <p>The bottom symbol moves to the top and the top symbol changes inside to outside and outside to inside.</p>		 <p>A B C D E</p>
<p>3 Answer B</p> <p>Inner circle becomes a square; small black circles on top of inner shape become white circles under the inner shape; larger white circles under the centre shape become black circles on top of the shape</p>		 <p>A B C D</p>
<p>4 Answer A</p> <p>The two figures are mirror images.</p>		 <p>A B C D</p>



<p>5 Answer C The large symbol becomes smaller and fits inside the small symbol, which turns on its side.</p>		 <p>A B C D E</p>
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