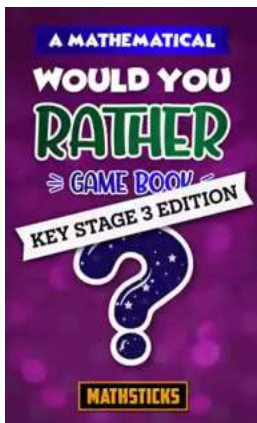


# 150 Maths Questions For Kids Aged 11-14 | Mathematical Would You Rather

Mathematics is a fascinating subject that plays a crucial role in our everyday lives. Whether it's solving problems, calculating equations, or measuring quantities, math skills are essential. For kids aged 11-14, mathematics becomes more complex and challenging, requiring critical thinking and problem-solving abilities.

In order to help young minds develop their mathematical skills and have some fun simultaneously, we have compiled a list of 150 maths questions tailored specifically for kids aged 11-14. These questions are presented in a "Would You Rather" format, making them engaging and intriguing.

So, buckle up and get ready to test your mathematical prowess with these exciting questions!



## A Mathematical Would You Rather Game Book Key Stage 3: 150 Maths Questions for Kids Aged 11-14 (Mathematical Would You Rather...)

by MATHSTICKS([Print Replica] Kindle Edition)

★★★★☆ 4.9 out of 5

Language : English  
Paperback : 26 pages  
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Dimensions : 6 x 0.07 x 9 inches  
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1. Would you rather solve a quadratic equation or simplify a radical expression?

# Solve Using Quadratic Formula

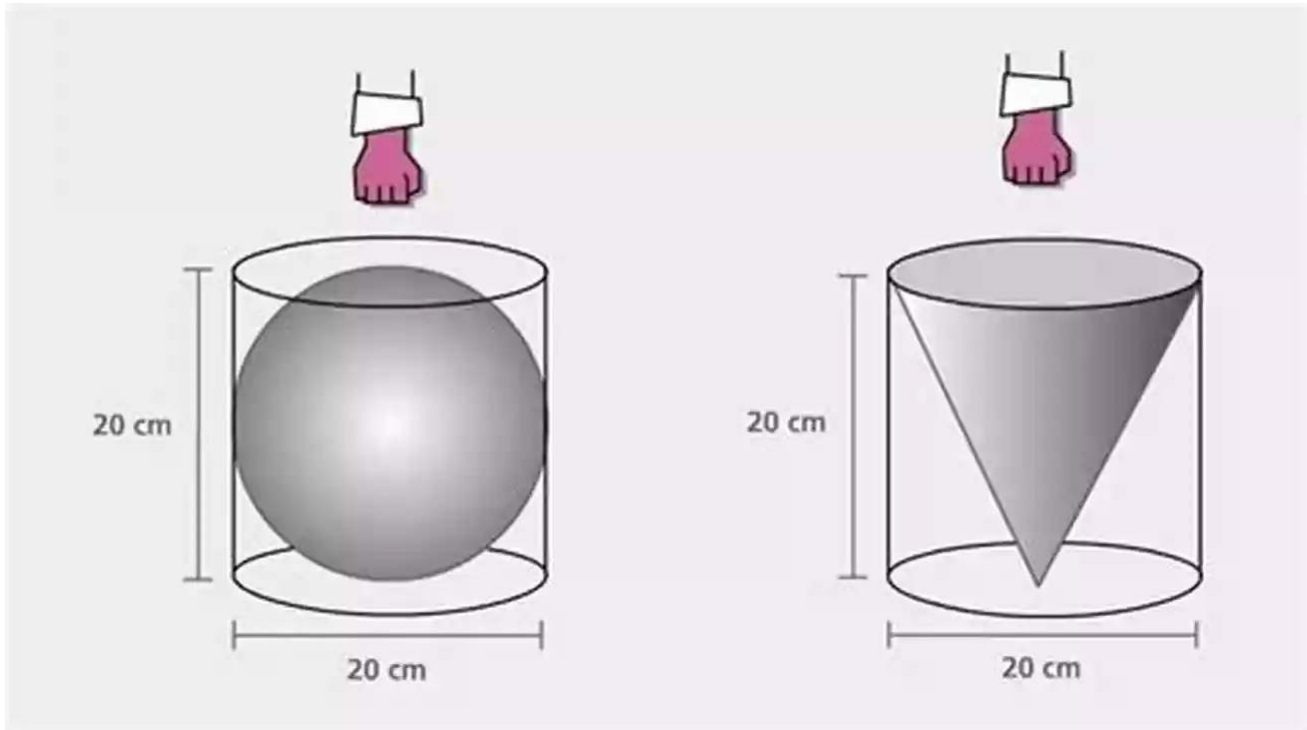
$$5x^2 - \sqrt{7}x - 40 = 0$$

## Quick & Simple Explanation

PreMath.com

This question is designed to challenge your algebraic skills. Choose between solving a quadratic equation (e.g.,  $ax^2 + bx + c = 0$ ) or simplifying a radical expression (e.g.,  $\sqrt{a/b}$ ). Both options require different approaches and strategies, so choose wisely!

2. Would you rather calculate the volume of a cylinder or find the area of a triangle?

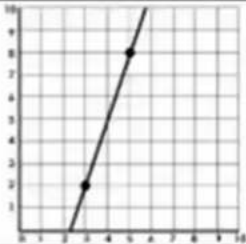
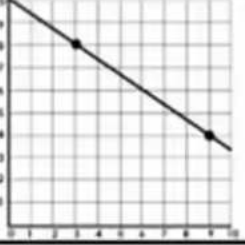
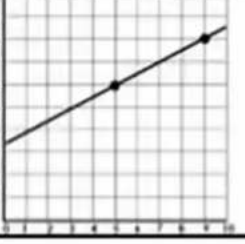
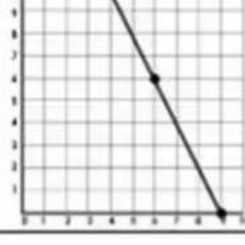


This question tests your spatial thinking abilities. Pick between calculating the volume of a cylinder ( $V = \pi r^2 h$ ) or finding the area of a triangle ( $A = \frac{1}{2}bh$ ). Both options involve understanding geometric shapes and their properties, enhancing your mathematical knowledge.

**3. Would you rather identify the slope of a line or determine the probability of an event?**

### Finding Slope using Multiple Representations

With two other people, cut the page on the dotted line and give each person one piece. Find the Slope or Rate of Change of each of the following using the information given. Work out each problem at the same time and check your work with your group when complete. Each person should get the same answer as the others in the group. If you are getting different answers, switch papers with your group members and try to find the mistake.

Partner A	Partner B	Partner C										
<p>1.</p> 	<p>1.</p> <table border="1"> <thead> <tr> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>0</td> </tr> <tr> <td>8</td> <td>3</td> </tr> <tr> <td>9</td> <td>4</td> </tr> <tr> <td>10</td> <td>7</td> </tr> </tbody> </table>	X	Y	7	0	8	3	9	4	10	7	<p>1.</p> <p>(2, 5), (4, 11)</p>
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<p>3.</p> <table border="1"> <thead> <tr> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>9</td> </tr> <tr> <td>4</td> <td>11</td> </tr> <tr> <td>10</td> <td>13</td> </tr> <tr> <td>14</td> <td>14</td> </tr> </tbody> </table>	X	Y	2	9	4	11	10	13	14	14	<p>3.</p> <p>(0, 8), (8, 12)</p>	<p>3.</p> 
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X	Y											
5.5	6											
7.5	2											
10.5	-4											
11.5	-6											

Here, you must choose between analyzing linear relationships by identifying the slope of a line or exploring the world of probabilities. Understanding slopes (e.g., rise over run) helps you interpret the relationship between variables, while calculating probabilities (e.g., the chances of obtaining a specific outcome) aids in decision-making.

4. Would you rather solve a system of linear equations or factor a polynomial expression?

**Example 4: Solving a Polynomial Equation**  
Find the real zeros of  $-10x^3 + 15x^2 + 16x - 12 = 0$ .

Graph on calculator. Zeros: 2

$$\begin{array}{r} 2 \overline{) -10 \ 15 \ 16 \ -12} \\ \underline{-20 \ -10 \ 12} \\ -10 \ -5 \ 6 \ 0 \\ \underline{-10x^2 - 5x + 6 = 0} \end{array}$$
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$
$$= \frac{-(-5) \pm \sqrt{(-5)^2 - 4(-10)(6)}}{2(-10)}$$

$\approx$

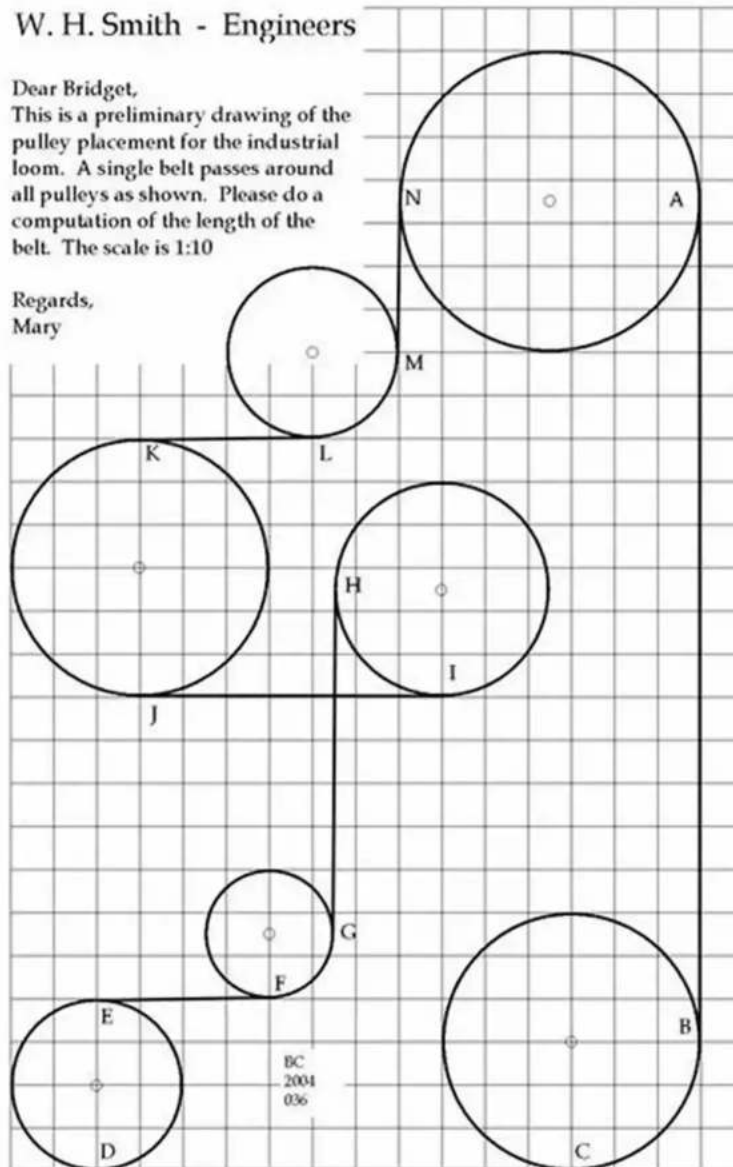
For this question, you have to make a decision between solving a system of linear equations (e.g.,  $x + y = 3$ ,  $2x - y = 4$ ) or factoring a polynomial expression (e.g.,  $x^2 + 5x + 6$ ). Both tasks require logical thinking and application of algebraic techniques, sharpening your problem-solving skills.

5. Would you rather solve a word problem involving fractions or calculate the circumference of a circle?

W. H. Smith - Engineers

Dear Bridget,  
This is a preliminary drawing of the pulley placement for the industrial loom. A single belt passes around all pulleys as shown. Please do a computation of the length of the belt. The scale is 1:10

Regards,  
Mary

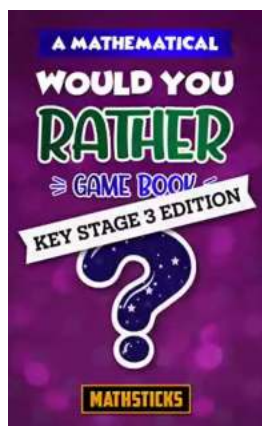


This question presents you with a choice between tackling a word problem involving fractions or calculating the circumference of a circle ( $C = 2\pi r$ ). Solving word problems helps you apply mathematical concepts in real-life scenarios, while exploring the properties of circles introduces you to the concept of  $\pi$  and its significance.

These are just a few examples of the 150 mathematical "Would You Rather" questions we have prepared for kids aged 11-14. Each question presents a unique scenario, challenging your mathematical thinking and problem-solving abilities.

Engaging with these questions not only strengthens your mathematical skills but also fosters a sense of curiosity and exploration. So, grab a pen and paper, gather your friends, and embark on an exciting journey through the realm of mathematics!

Remember, practice is essential in mastering any subject. The more you engage with these questions and actively apply mathematical concepts, the more proficient you will become. So, dive in, have fun, and let mathematics ignite your imagination!



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## **This is the Key Stage 3 version of our popular 'Maths Choices' game-book**

“A Mathematical Would You Rather...” is a problem-solving game where you and other players have to choose between two mathematical situations. Once you've settled on a choice you can explore why you made that particular choice and then go on to prove it! It's an amazing way to bring maths issues into 'real life' in a quirky and interesting way. Also, asking for a player to explain their reasons for a choice boosts their understanding. This is a great way to share strategies and ensures everyone understands and practices mathematical skills.

Ideal for ages 11-104 years old - yes adults will enjoy talking through the challenges just as much as their kids!

This book will keep your kids and their friends mathematically entertained (and learning) for hours!

☐ Parents and Teacher approved material

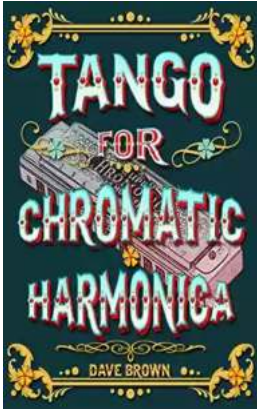
“A Mathematical Would You Rather...” is perfectly designed to offer:

- ◆ 150 \*Totally new\* mathematical choices
- ◆ Fully Illustrated - with the images often provide important 'clues'
- ◆ Great for getting mathematical conversations at home, at school, in the car, in the bath... anywhere!
- ◆ Engaging conversation ice breakers!
- ◆ An important book that makes a perfect gift for anyone developing their maths skills



◆ Developed by teachers and parents with a track record in boosting children with mathematical understanding

◆ Matched to the Key Stage 3 Maths Curriculum for 11-14 year-olds



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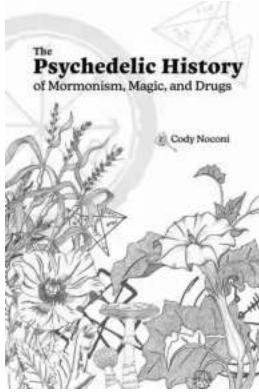
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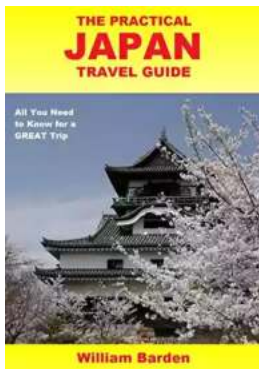
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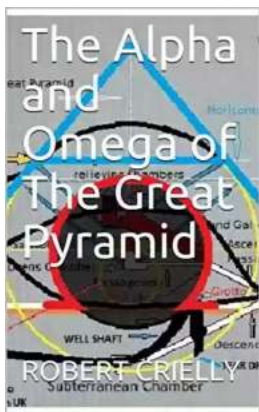
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