

### **Year 7 ZONES 2026**

Y7/1. Mia is 7 years older than Ethan.

Ethan is 11 years old.

What will be the product of their ages in 5 years?

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Y7/2. Tom rounded 8,349 to the nearest 1000. He then divided the rounded number by 4.

What was his answer?

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Y7/3. A sequence begins with 2. Each term after the first is 4 times the previous term plus 2.  
Which term is the first to exceed 2,000?

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Y7/4. A cube is painted on all sides and then cut into 27 small  $1\text{ cm}^3$  cubes.  
How many of the small cubes have no paint on it?

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Y7/5 A fair dice is rolled once.

What is the probability of rolling a number less than 5 but greater than 1?

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Y7/6. The average of 8 numbers is 25.

One number is removed, and the average of the remaining 7 numbers becomes 23.

Which number was removed?

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Y7/7 A rectangular field is 12 m by 9 m. A rectangular pond measuring 4 m by 2.5 m is built inside it.

What is the area of the field that is not covered by the pond?

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Y7/8 Which fraction is halfway between  $\frac{1}{4}$  and  $\frac{1}{3}$ ?

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Y7/9. 4 machines can make 200 items in 5 hours. How many items can 1 machine make in 20 hours?

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Y7/10 A circle has diameter 40 cm. Using  $\pi = 3.14$ , find the area of the circle in  $\text{cm}^2$

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Y7/11. Five cards with digits 2, 8, 1, 2 and 3 are arranged to form different numbers. Find the largest even number which can be formed .

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Y7/12. What is the difference between  $\frac{1}{8}$  of 160 and  $\frac{1}{3}$  of  $\frac{1}{2}$  of 90?

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Y7/13. How many different positive whole numbers can replace the  $\square$  to make this a true statement?

$$\frac{\square}{10} < \frac{2}{3}$$

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Y7/14 A three-digit number has:

- a hundreds digit that is 2 more than the tens digit
- a ones digit that is 3 less than the tens digit
- the digits add to 14

What is the number?

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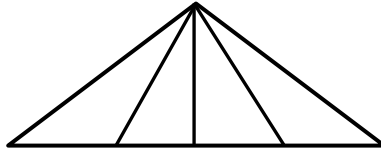
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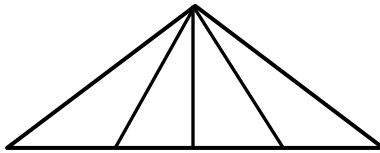
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Y7/15 How many triangles can be found in this diagram?



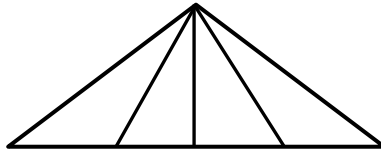
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Y7/16. Worker A can complete a project in 9 days. Worker B can complete it in 18 days. How many days will they need if they work together?



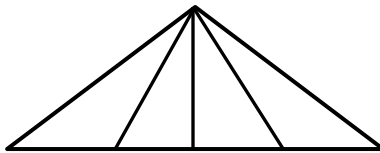
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Y7/15 How many triangles can be found in this diagram?



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Y7/16. Worker A can complete a project in 9 days. Worker B can complete it in 18 days. How many days will they need if they work together?



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Y7/17 A book is reduced by  $\frac{1}{3}$  of its original price.  
The customer pays \$24 after the discount.

How much did the customer save?

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Y7/18 What is the largest 2 digit prime number whose digits are also prime?

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Y7/19 A number is divided by 3 and then 8 is added. The result is 20.  
What is the number?

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Y7/19 A number is divided by 3 and then 8 is added. The result is 20.  
What is the number?

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What is the number?

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Y7/20 A baker made some cookies. He sold  $\frac{1}{2}$  of the cookies in the morning and  $\frac{1}{3}$  of the remaining cookies in the afternoon. He had 20 cookies left.

How many cookies did he make originally?

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