



ASSESSMENT QUESTIONS:

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RESULTS NOT SAVED

Q1

Q2

Q3

Q4

Q5

SCORE

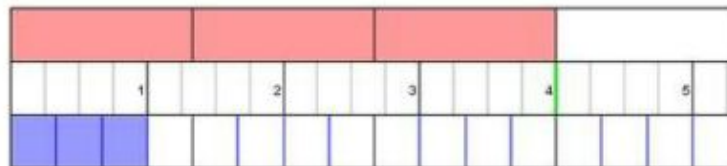
Your Results:



5/5

Questions, Answers, and Explanations:

1. What is $3 \div \frac{3}{4}$? Use the model below to help, if you like.



- A. 2.25
- B. 3
- C. 4
- D. 12

Correct Answer: C - 4

Explanation: If you place models of $\frac{3}{4}$ end to end, it would take 4 models to cover the entire length of the model of 3. There are four groups of $\frac{3}{4}$ in 3.

You answered this question correctly!

↑ Results Summary

2. What is $2 \div \frac{1}{8}$?

- A. $\frac{1}{16}$

- B. $\frac{1}{4}$
- C. 4
- D. 16

Correct Answer: D - 16

Explanation: $2 \div \frac{1}{8}$ is equal to 16. If you placed 8 models of the fraction $\frac{1}{8}$ end to end, their total length would be 1 unit long. Therefore, 16 models of the $\frac{1}{8}$ placed end to end would be 2 units long. This shows that the whole number 2 can be evenly divided into 16 parts of $\frac{1}{8}$ each, and that $2 \div \frac{1}{8} = 16$.

You answered this question correctly!

↑ Results Summary

3. What is $2\frac{1}{2} \div \frac{1}{2}$?

- A. $\frac{3}{4}$
- B. 2
- C. $4\frac{1}{2}$
- D. 5

Correct Answer: D - 5

Explanation: $2\frac{1}{2} \div \frac{1}{2}$ is equal to 5. If you placed 5 models of the fraction $\frac{1}{2}$ end to end, their total length would be $2\frac{1}{2}$ units. Therefore, $2\frac{1}{2}$ can be evenly divided into 5 parts of $\frac{1}{2}$ each.

You answered this question correctly!

↑ Results Summary

4. What is $\frac{7}{4} \div \frac{3}{4}$?

- A. $1\frac{5}{16}$

- B. 2
- C. $2\frac{1}{4}$
- D. $2\frac{1}{3}$

Correct Answer: D - $2\frac{1}{3}$

Explanation: $\frac{7}{4} \div \frac{3}{4} = 2\frac{1}{3}$. Using fraction models, you can show that 2 models of the fraction $\frac{3}{4}$ placed end to end have a total length of $\frac{6}{4}$. This leaves a remainder of $\frac{1}{4}$. $\frac{1}{4}$ is $\frac{1}{3}$ of the divisor, $\frac{3}{4}$. Therefore, $\frac{7}{4} \div \frac{3}{4} = 2\frac{1}{3}$. You could also calculate this quotient by multiplying $\frac{7}{4}$ by the reciprocal of $\frac{3}{4}$: $\frac{7}{4} \cdot \frac{4}{3} = \frac{7}{3}$ or $2\frac{1}{3}$.

You answered this question correctly!

↑ Results Summary

5. Dividing a number by $\frac{1}{2}$ will have the same result as multiplying it by:

- A. $\frac{1}{2}$
- B. 1
- C. 2
- D. 0.5

Correct Answer: C - 2

Explanation: Dividing a number by $\frac{1}{2}$ will have the same result as multiplying it by 2. To find a quotient when the divisor is a fraction, you multiply the dividend by the reciprocal of the divisor. Since the reciprocal of $\frac{1}{2}$ is $\frac{2}{1}$ or 2, dividing a number by $\frac{1}{2}$ is the same as multiplying it by 2. Similarly, multiplying a number by $\frac{1}{2}$ is the same as dividing it by 2.

You answered this question correctly!

↑ Results Summary

Gizmps - Dividing Fractions

Date

No

$$1. \quad 3 \div \frac{3}{4} = \frac{3}{1} \times \frac{4}{3} = \frac{12}{3} = 3 \overline{)12} = 4$$

$$2. \quad 2 \div \frac{1}{8} = \frac{2}{1} \times \frac{8}{1} = \frac{16}{1} = 16$$

$$3. \quad 2 \frac{1}{2} \div \frac{1}{2} = \frac{5}{2} \times \frac{2}{1} = \frac{10}{2} = 2 \overline{)10} = 5$$

$$4. \quad \frac{7}{4} \div \frac{3}{4} = \frac{7}{4} \times \frac{4}{3} = \frac{28}{12} = 12 \overline{)28} = 2 \frac{1}{3}$$