

Kumon Math Challenge – Sample Questions
Grade 5

Reduce.

1. $\frac{15}{51} =$

A. $\frac{3}{5}$

B. $\frac{5}{17}$

C. $\frac{5}{12}$

D. $\frac{3}{16}$

2. $5\frac{5}{12} + 4\frac{1}{8} =$

A. $9\frac{6}{20}$

B. $10\frac{1}{12}$

C. $9\frac{6}{24}$

D. $9\frac{13}{24}$

3. $\frac{6}{22} \div \frac{9}{33} =$

A. 1

B. $\frac{54}{66}$

C. 2

D. 3

Solve for x.

4. $4\left(2x - \frac{1}{2}\right) - 3\left(x - \frac{1}{3}\right) = 2$

A. $x = \frac{4}{5}$

B. $x = \frac{1}{3}$

C. $x = \frac{3}{5}$

D. $x = 1$

5. $5.1 \div 1.7 =$

A. 2.7

B. 1.3

C. 3

D. 4

6. If a plane flies at 500 miles per hour, how far can the plane fly in 0.75 hours?

A. 400 miles

B. 395 miles

C. 375 miles

D. 200 miles

What is the correct sign that makes each statement true?

7. $\frac{2}{5} + \frac{1}{6} \times \frac{3}{7} \square \frac{2}{5} \times \frac{1}{6} + \frac{3}{7}$

A. >

B. <

C. =

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Continue the pattern by finding the next two numbers.

8. 21 24 29 ...

- A. 30, 31
- B. 34, 39
- C. 32, 35
- D. 36, 45

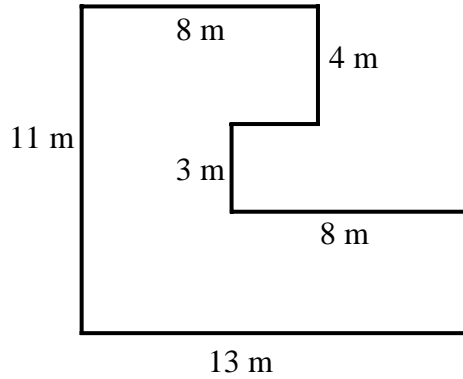
Rick has 12 colored marbles in a bag. He has 4 red, 3 blue, 1 green, 2 purple, and 2 black marbles in the bag.

What are Rick's chances of pulling out:

9. A black or blue marble?

- A. $\frac{1}{6}$
- B. $\frac{1}{4}$
- C. $\frac{5}{12}$
- D. $\frac{5}{7}$

Find the perimeter and area of the following figure.



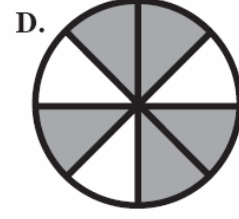
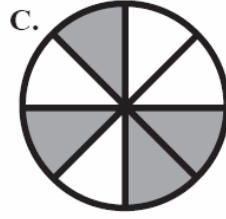
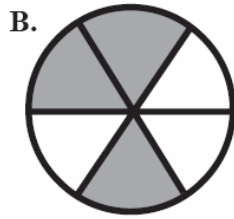
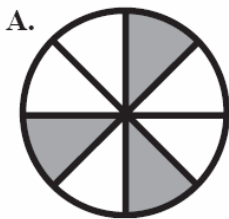
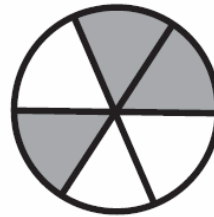
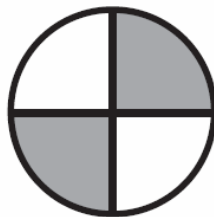
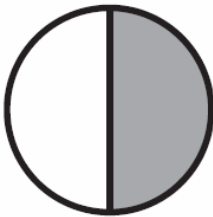
10. Perimeter:

- A. 54 m
- B. 48 m
- C. 47 m
- D. 143 m

11. Area:

- A. 99 m^2
- B. $109,824 \text{ m}^2$
- C. 47 m^2
- D. 143 m^2

12. What is the next shape?



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ANSWER KEY

1. B
2. D
3. A
4. C
5. C
6. C
7. B
8. D
9. C
10. A
11. A
12. C