

Pattern in Division

A. Choose the correct answer:

1. What comes next in the pattern: $100 \div 2 = 50$, $50 \div 2 = 25$, $25 \div 2 = \underline{\hspace{1cm}}$?

- a) 10
- b) 15
- c) 12.5
- d) 20

2. If the pattern is: $81 \div 3 = 27$, $27 \div 3 = 9$, $9 \div 3 = 3$, what comes next?

- a) 2
- b) 1
- c) 0
- d) 3

3. Which rule fits the pattern: 64, 32, 16, 8?

- a) Divide by 2
- b) Divide by 4
- c) Subtract 8
- d) Subtract 4

4. What is the next number in the pattern: 72, 36, 18, 9, $\underline{\hspace{1cm}}$?

- a) 0
- b) 3
- c) 6
- d) 4

5. If $40 \div 2 = 20$, $20 \div 2 = 10$, $10 \div 2 = \underline{\hspace{1cm}}$

- a) 4
- b) 6
- c) 5
- d) 8

B. Write the Missing Terms to Complete the Sentences:

1. $100 \div 2 = 50$, $50 \div 2 = \underline{\hspace{2cm}}$

2. $81 \div 3 = 27$, $27 \div 3 = \underline{\hspace{2cm}}$

3. 64, 32, 16, $\underline{\hspace{2cm}}$

4. $18 \div 3 = 6$, $6 \div 3 = \underline{\hspace{2cm}}$

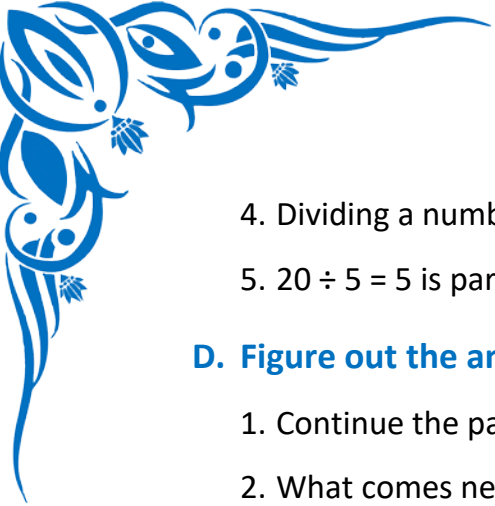
5. 90, 45, $\underline{\hspace{2cm}}$, 11.25

C. Mark each sentence with a True (✓) or False (X):

1. $100 \div 2 = 50$ and $50 \div 2 = 25$ is a division pattern $\underline{\hspace{2cm}}$

2. Division patterns always increase $\underline{\hspace{2cm}}$

3. 72, 36, 18, 9 is a pattern of dividing by 2 $\underline{\hspace{2cm}}$



4. Dividing a number repeatedly by 2 gives a pattern _____

5. $20 \div 5 = 5$ is part of a division pattern _____

D. Figure out the answers to these questions:

1. Continue the pattern: $128 \div 2 = 64$, $64 \div 2 = 32$, _____

2. What comes next: $243 \div 3 = 81$, $81 \div 3 = 27$, _____

3. Identify the rule: 60, 30, 15, _____

4. Fill in the blanks: $36 \div 3 = 12$, $12 \div 3 = \underline{\quad}$, $\underline{\quad} \div 3 = 1.33$

5. Create a division pattern starting from 100 and divide by 5 repeatedly.

E. Challenge yourself with these questions:

1. Create a pattern starting from 200 and divide by 4 step by step

2. Divide 96 by 2, then divide the result by 2, continue 2 more steps

3. What is the result if $3 \frac{3}{4}$ is divided by 3?

4. Make a pattern by dividing each number by 5 starting from 100

5. Fill in the blanks: 144, _____, 36, _____, 9