



Practice Worksheet on $\frac{1}{2}$ $\frac{1}{3}$

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Subject: $\frac{1}{2}$

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Long Answer Questions

- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ 6 $\frac{1}{2}$ $\frac{1}{3}$ 8 $\frac{1}{4}$. $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$.
- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ 10 $\frac{1}{2}$, $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ – 6 $\frac{1}{2}$. $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$.
- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ 5 $\frac{1}{2}$, 7 $\frac{1}{2}$ $\frac{1}{3}$ 10 $\frac{1}{2}$? $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$.
- $\frac{1}{2}$, $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ 9 $\frac{1}{2}$ $\frac{1}{3}$ 12 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ 15 $\frac{1}{2}$ $\frac{1}{3}$.
- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ 5 $\frac{1}{2}$ $\frac{1}{3}$ 12 $\frac{1}{2}$.
- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ 3 $\frac{1}{2}$ $\frac{1}{3}$ 4 $\frac{1}{2}$. $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$.
- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$, $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$?

8. $3x^2 + 5x - 13$ is a polynomial. What is the degree of the polynomial? $5x^2 + 3x - 13$ is a polynomial. What is the degree of the polynomial?

Multiple Choice Questions

1. A polynomial is $6x^2 + 8x - 10$. What is the degree of the polynomial?

- a) 10
- b) 10
- c) 12
- d) 14

2. A polynomial is $10x^2 - 6x + 5$. What is the degree of the polynomial?

- a) 5
- b) 8
- c) 10
- d) 12

3. A polynomial is $12x^2 + 9x - 15$. What is the degree of the polynomial?

- a)
- b)

4. A polynomial is $9x^2 + 12x - 15$. What is the degree of the polynomial?

- a) 25
- b) 36
- c) 15

5. A polynomial is $5x^2 + 12x - 15$. What is the degree of the polynomial?

- a) 25

Answer Key

Long Answer Questions - Expected Responses

1. A right-angled triangle has sides of length 6 cm and 8 cm. Find the length of the hypotenuse.

Expected Answer: A right-angled triangle with sides of length 6 cm and 8 cm. The hypotenuse is $a^2 + b^2 = c^2$. $6^2 + 8^2 = c^2$. $36 + 64 = c^2$. $100 = c^2$. $c = 10$.

2. A right-angled triangle has a hypotenuse of length 10 cm and one side of length 6 cm. Find the length of the other side.

Expected Answer: A right-angled triangle with a hypotenuse of length 10 cm and one side of length 6 cm. The other side is $a^2 + b^2 = c^2$. $a^2 + 6^2 = 10^2$. $a^2 + 36 = 100$. $a^2 = 64$. $a = 8$.

3. A right-angled triangle has sides of length 5 cm, 7 cm and 10 cm. Is it a right-angled triangle? Justify your answer.

Expected Answer: A right-angled triangle with sides of length 5 cm, 7 cm and 10 cm. It is not a right-angled triangle because $5^2 + 7^2 \neq 10^2$.

4. A right-angled triangle has a hypotenuse of length 15 cm and one side of length 9 cm. Find the length of the other side.

Expected Answer: A right-angled triangle with a hypotenuse of length 15 cm and one side of length 9 cm. The other side is $a^2 + b^2 = c^2$. $a^2 + 9^2 = 15^2$. $a^2 + 81 = 225$. $a^2 = 144$. $a = 12$.

5. A right-angled triangle has sides of length 5 cm and 12 cm. Find the length of the hypotenuse.

Expected Answer: A right-angled triangle with sides of length 5 cm and 12 cm. The hypotenuse is $a^2 + b^2 = c^2$. $5^2 + 12^2 = c^2$. $25 + 144 = c^2$. $169 = c^2$. $c = 13$.

6. A right-angled triangle has a hypotenuse of length 3 cm and one side of length 4 cm. Find the length of the other side.

Expected Answer: 1. A right-angled triangle with a hypotenuse of length 3 cm and one side of length 4 cm. The other side is $a^2 + b^2 = c^2$. $a^2 + 4^2 = 3^2$. $a^2 + 16 = 9$. $a^2 = -7$. This is not possible. 2. A right-angled triangle with a hypotenuse of length 3 cm and one side of length 4 cm. The other side is $a^2 + b^2 = c^2$. $a^2 + 4^2 = 3^2$. $a^2 + 16 = 9$. $a^2 = -7$. This is not possible.

7. A right-angled triangle has sides of length 3 cm, 4 cm and 5 cm. Is it a right-angled triangle? Justify your answer.

Expected Answer: A right-angled triangle with sides of length 3 cm, 4 cm and 5 cm. It is a right-angled triangle because $3^2 + 4^2 = 5^2$.

8. $5x^2 + 3x - 2$ is divided by $x - 1$. Find the remainder. $5x^2 + 3x - 2 = (x - 1)(ax + b) + c$. Find the value of c .

Expected Answer: $5x^2 + 3x - 2 = (x - 1)(5x + 8) + 6$, $c = 6$.

Multiple Choice Questions – Correct Answers

1. $2x^2 + 5x - 3$ is divided by $x + 2$. Find the remainder.

Correct Answer: 10

2. $3x^2 + 7x - 4$ is divided by $x - 1$. Find the remainder.

Correct Answer: 8

3. $4x^2 + 9x - 5$ is divided by $x + 3$. Find the remainder.

Correct Answer: 15

4. $6x^2 + 11x - 7$ is divided by $x - 2$. Find the remainder.

Correct Answer: 15

5. $7x^2 + 14x - 7$ is divided by $x + 1$. Find the remainder.

Correct Answer: 30

6. $8x^2 + 16x - 8$ is divided by $x + 2$. Find the remainder.

Correct Answer: 5

7. $9x^2 + 18x - 9$ is divided by $x + 3$. Find the remainder.

Correct Answer: 12

8. $10x^2 + 20x - 10$ is divided by $x + 4$.

Correct Answer:  