



Practice exercise : Ratio and Proportion

A. Reduce to lowest terms

• **Eg:** $\frac{100}{200} = \frac{1}{2}$

- **Both zeros can be cancelled out. Then, $\frac{100}{200}$ reduce to $\frac{1}{2}$.**

1. $\frac{9}{18} =$ _____

2. $\frac{15}{35} =$ _____

3. $\frac{170}{700} =$ _____

4. $\frac{121}{803} =$ _____

5. $\frac{888}{1111} =$ _____

6. $\frac{480}{120} =$ _____

7. $\frac{3200}{1600} =$ _____

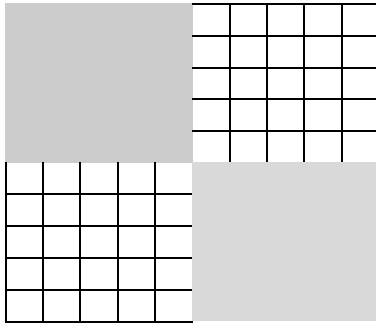
8. $\frac{12000}{1000} =$ _____

9. $\frac{241206}{666} =$ _____

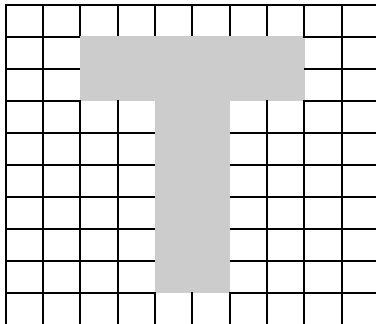
10. $\frac{45901050}{150} =$ _____

B. What is the ratio of shaded region?

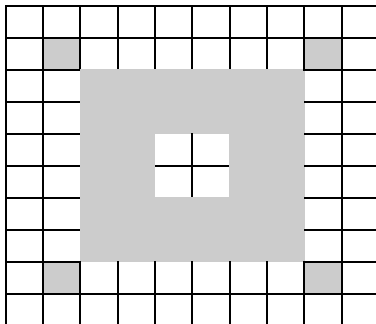
1.



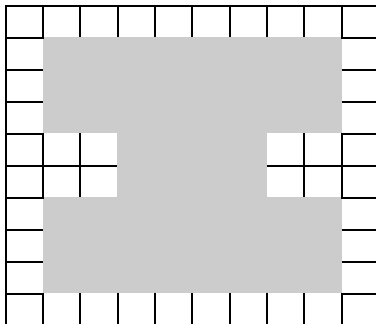
2.



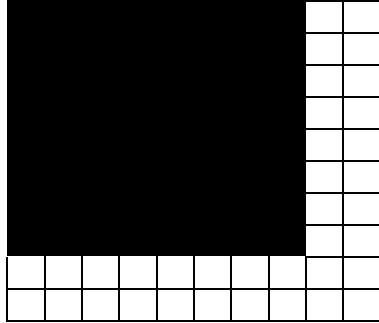
3.



4.



5.



C. Write each ratios:

• **Eg: 9 pants to 27 shirts**

○ **9 : 27 = 1 : 3**

1. 4 pens to 8 pencils
2. 20 cats to 45 birds
3. 120 tulips to 150 roses
4. 208 cages to 408 birds
5. RM 1 900 to RM 3 800
6. 290 teachers to 1 160 students
7. 1 000 patient to 5 doctors
8. 8 965 flowers to 55 vases
9. 840 shoes to 1 080 socks
10. 240 pistols to 720 bullets

D. Solve the following proportions

1. $\frac{x}{11} = \frac{32}{4}$

2. $\frac{15}{1\frac{2}{3}} = \frac{9}{y}$

3. $19 : p = 7 : 49$

4. $s : 6 = 6 : 36$

5. $12 : 20 = 60 : t$

6. $\frac{144}{z} = \frac{12}{50}$

7. $\frac{246}{500} = \frac{v}{250}$

8. $6 : 15 = u : 270$

9. $m : 132 = 5 : 11$

10. $908 : 224 = 227 : s$

Answer Key

Practice exercise: Ratio and Proportion

A.

1. $\frac{1}{2}$
2. $\frac{3}{7}$
3. $\frac{17}{70}$
4. $\frac{11}{73}$
5. $\frac{111}{139}$
6. 4
7. 2
8. 12
9. $362\frac{29}{111}$
10. 306 007

B.

1. $\frac{1}{2}$
2. $\frac{6}{25}$
3. $\frac{9}{25}$
4. $\frac{14}{25}$
5. $\frac{41}{50}$

C.

1. 1 : 2
2. 4 : 9
3. 4 : 5
4. 26 : 51
5. 1 : 2
6. 1 : 4
7. 200 : 1
8. 1 793 : 11
9. 7 : 9
10. 1 : 3

D.

1. $x = 88$
2. $y = 1$
3. $p = 133$
4. $s = 1$
5. $t = 100$
6. $z = 600$
7. $v = 123$
8. $u = 108$
9. $m = 55$
10. $s = 56$