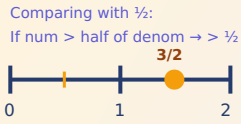
BrainyWorkbook Smart Practice, Sharper Minds

Class 5 **Subject** Maths **Chapter** Fractions **Level** MEDIUM **Questions** 20

Name: ..... Date: .....



Key Skills for Medium Level

Equivalent fractions: Multiply/divide top and bottom by same number.
Comparing: Use ½ or 1 as a reference point.
Mixed numbers: 7/2 = 3½ (3 wholes + ½)
Pattern: 1/3 = 2/6 = 3/9 = 4/12 (numerator & denominator grow together)

MEDIUM — Stepping Up

1 Complete the equivalent fraction chain. What pattern do you notice?
(a) 1/4 = 2/__ = __/12 = 4/__ = __/20
(b) 2/5 = 4/__ = __/15 = 8/__ = __/25

.....

2 **Spot the Error!** Sunita wrote: 2/3 = 6/12. Is she correct? If not, find the correct equivalent fraction of 2/3 with denominator 12.

3 Arjun has a chocolate bar with 12 pieces. He eats 4 pieces on Monday and 3 pieces on Tuesday. (a) What fraction did he eat on Monday? (b) What fraction on Tuesday? (c) What fraction is left after both days?

4 Compare each pair of fractions using ½ as a reference. Show your reasoning.
(a) 5/8 and 3/6 (b) 4/9 and 7/13 (c) 11/16 and 3/5

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5 Raman's father made parathas cut into 4 equal pieces each. Raman ate 7 pieces, Dadiji ate 10 pieces, and Baba ate 12 pieces. Express each person's portion as a mixed number and as an improper fraction.

Person	Pieces (of ¼)	Improper Fraction	Mixed Number
Raman	7		
Dadiji	10		
Baba	12		

6 Place these fractions on the number line: **3⁄4, 5⁄4, 7⁄4, 9⁄4**



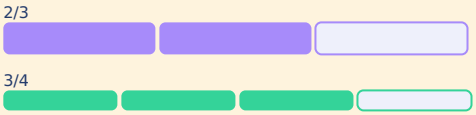
7 Compare using 1 as a reference. Write < or >. Explain your reasoning briefly.
(a) 8⁄7 ___ 15⁄9 (b) 13⁄20 ___ 17⁄15 (c) 7⁄6 ___ 8⁄8 (d) 6⁄6 ___ 19⁄12

8 In an IPL match, Mumbai Indians scored 180 runs. Rohit Sharma scored 54 runs, Hardik Pandya scored 36 runs, and the rest of the team scored the remaining runs. (a) What fraction did Rohit score? (b) What fraction did Hardik score? (c) What fraction did the rest of the team score? (d) Are Rohit's and Hardik's fractions equivalent?

9 **Detective Fraction!** I am an equivalent fraction of 3⁄5. My denominator is 25. My numerator is a perfect square. Who am I?

10 Convert:
(a) 2¾ = ___⁄4 (b) 3⅓ = ___⁄3 (c) 11⁄4 = ___ ⁄_ (d) 17⁄5 = ___ ⁄_

11 Look at the fraction strips. Fill in <, =, or >:



2⁄3 ___ 3⁄4

(Use ½ as reference to justify your answer)

12 Using the idea of equivalent fractions, find:
(a) How many 1⁄6 s make 1⁄3? (b) How many 1⁄12 s make 1⁄4? (c) How many 1⁄8 s make 1⁄2?

13 Without finding a common denominator, arrange in **descending order** (use ½ or 1 as a reference):
5⁄9, 7⁄11, 3⁄7, 9⁄13

14 At a Diwali party, Priya distributed sweets: she gave 2⁄5 of the sweets to neighbours, 1⁄5 to classmates, and kept the rest. (a) What fraction did she give away in total? (b) What fraction did she keep? (c) If she had 40 sweets, how many did she keep?

15 **Teach It Back!** Your little sister asks: "How do I know if two fractions are equivalent without drawing pictures?" Write your explanation in 2–3 sentences using the multiplication/division method.

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16 Look at this pattern: 1⁄3 = 2⁄6 = 3⁄9 = 4⁄12
(a) What is the 6th fraction in this pattern? (b) What is the 10th fraction? (c) If the numerator is 15, what is the denominator?

17 A school tuck shop has 24 water bottles. By noon, 18 bottles were sold. (a) What fraction of bottles was sold? (b) What fraction is still available? (c) Is the fraction sold greater than ¾?

18 An ant is 1⁄4 cm long. 16 such ants walk in a line one behind the other. What is the total length of the line of ants? Show using a number line sketch.

19 **What If?** A class has 30 students. If 2⁄5 of students like cricket, 1⁄3 like football, and the rest like badminton, how many students like each sport? (Show your working.)

20 Raman's family of 6 ordered 2 pizzas, each cut into 3 equal slices. Dadiji and Dadaji gave their slices to Raman, and Maa & Baba gave theirs to Radhika. After Raman gave 1 slice to Radhika, how much pizza does each person (Raman and Radhika) have? Express as a mixed number.

Brainy Bonus — Fraction in Real Life!
India's currency uses fractions in daily life! A **50 paise** coin is **½ rupee** — that's a fraction! Even a quarter of a century (25 years) uses the idea of **¼**. The famous Indian mathematician **Brahmagupta** (628 CE) wrote rules for fractions in his book *Brahmasphutasiddhanta* — over 1400 years ago!