Improper Fractions and Mixed Numbers

Name: _____ Date: _____ Total: 30 marks

Part A: Identify the Fractions (5 marks)

Write I for improper fraction, M for mixed number, or P for proper fraction.

1. $\frac{7}{4}$ Answer: _____

2. $2\frac{1}{3}$ Answer: _____

3. $\frac{3}{8}$ Answer: _____

4. $\frac{11}{5}$ Answer: _____

5. $4\frac{2}{7}$ Answer: _____

Part B: Improper Fractions to Mixed Numbers (6 marks)

Convert to mixed numbers in simplest form. Show your working. (2 marks each)

6. $\frac{9}{4}$

Working: _____

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

Working: _____

8. $\frac{23}{6}$

Working: _____

Part C: Mixed Numbers to Improper Fractions (6 marks)

Convert to improper fractions. Show your working. (2 marks each)

9. $2\frac{3}{4}$

Working: _____

10. $3\frac{2}{5}$

Working: _____

11. $4\frac{1}{3}$

Working: _____

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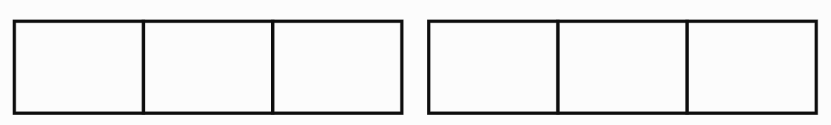
Part D: Visual Models (5 marks)

12. Each bar is one whole, divided into four equal parts. Write the shaded amount as an improper fraction and a mixed number. (2 marks)



Improper fraction: _____ Mixed number: _____

13. Shade the bars to represent 1 2/3. Each bar represents one whole. (3 marks)



Part E: Problem Solving (8 marks)

14. A pizza is cut into 8 equal slices. Students eat 19 slices.

a) Write the amount eaten as an improper fraction of a pizza. (1 mark)

_____

b) Convert your answer into a mixed number. (2 marks)

_____

_____

15. A recipe requires $2\frac{3}{4}$ cups of flour.

a) Express this amount as an improper fraction. (2 marks)

_____

_____

b) Another recipe requires $\frac{13}{4}$ cups. Which recipe requires more flour, and by how much? (3 marks)

_____

_____

_____

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Answer Key – Teacher Copy

Part A

1. I 2. M 3. P 4. I 5. M

Part B

6. $2\frac{1}{4}$ (9 ÷ 4 = 2 remainder 1)

7. $3\frac{2}{5}$ (17 ÷ 5 = 3 remainder 2)

8. $3\frac{5}{6}$ (23 ÷ 6 = 3 remainder 5)

Part C

9. $\frac{11}{4}$ ((2 × 4 + 3) ÷ 4)

10. $\frac{17}{5}$ ((3 × 5 + 2) ÷ 5)

11. $\frac{13}{3}$ ((4 × 3 + 1) ÷ 3)

Part D

12. Improper fraction: $\frac{11}{4}$ Mixed number: $2\frac{3}{4}$

13. Shade all three sections of the first bar and two sections of the second bar.

Part E

14a. $\frac{19}{8}$ pizzas.

14b. 19 ÷ 8 = 2 remainder 3, so $2\frac{3}{8}$ pizzas.

15a. $\frac{11}{4}$ cups.

15b. The second recipe uses more flour. Difference: $\frac{2}{4} = \frac{1}{2}$ cup.

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