Improper Fractions and Mixed Numbers - Worksheet

Skill

Group A - Converting improper fractions to mixed numbers

Write these improper fractions as mixed numbers:

1) $\frac{5}{2}$ **2)** $\frac{7}{2}$ **3)** $\frac{11}{2}$

4) $\frac{5}{3}$ **5)** $\frac{7}{3}$ **6)** $\frac{13}{3}$

7) $\frac{5}{4}$ **8)** $\frac{9}{4}$ **9)** $\frac{15}{4}$

10) $\frac{7}{6}$ **11)** $\frac{11}{6}$ **12)** $\frac{13}{6}$

Group B - Converting mixed numbers to improper fractions

Write these mixed numbers as improper fractions:

1) $1\frac{1}{3}$ **2)** $4\frac{1}{3}$ **3)** $5\frac{1}{3}$

4) $1\frac{3}{4}$ **5)** $3\frac{3}{4}$ **6)** $5\frac{3}{4}$

7) $1\frac{1}{5}$ **8)** $1\frac{2}{5}$ **9)** $1\frac{3}{5}$

10) $2\frac{3}{4}$ **11)** $1\frac{3}{5}$ **12)** $2\frac{3}{7}$

Improper Fractions and Mixed Numbers - Worksheet

Group C - Mixed conversion questions

Write the improper fractions as mixed numbers and vice versa:

1) $\frac{35}{4}$ **2)** $\frac{35}{8}$ **3)** $\frac{35}{9}$

4) $3\frac{5}{6}$ **5)** $3\frac{5}{7}$ **6)** $3\frac{5}{8}$

7) $\frac{47}{5}$ **8)** $\frac{47}{6}$ **9)** $\frac{47}{8}$

10) $6\frac{5}{8}$ **11)** $7\frac{5}{8}$ **12)** $9\frac{5}{8}$

Improper Fractions and Mixed Numbers - Worksheet

Applied

1) How many quarters are there in:

(a) $3\frac{1}{4}$

(b) $5\frac{3}{4}$

2) Which of these improper fractions has the smallest value?

(a) $\frac{7}{2}$ or $\frac{9}{4}$ or $\frac{8}{5}$

(b) $\frac{5}{2}$ or $\frac{9}{7}$ or $\frac{10}{3}$

3) Work out. Give your answer as a mixed number.

(a) $3\frac{1}{2} \times 2\frac{1}{4}$

(b) $2\frac{2}{3} \times 3\frac{4}{5}$

Improper Fractions and Mixed Numbers - Exam Questions

1) Write this improper fraction as a mixed number.

$\frac{17}{5}$

..... **(1 mark)**

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2) Work out.

$\frac{4}{7} + \frac{6}{7}$

$\frac{10}{14}$ $1\frac{3}{7}$ $1\frac{2}{7}$ $\frac{10}{49}$

Circle your answer.

..... **(1 mark)**

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3) Work out. Give your answer as a mixed number.

$\frac{5}{8} \times 11$

..... **(2 marks)**

Improper Fractions and Mixed Numbers - Answers

	Question	Answer
Group A	Skill Questions	
	Write these improper fractions as mixed numbers: **1)** $\frac{5}{2}$ **2)** $\frac{7}{2}$ **3)** $\frac{11}{2}$ **4)** $\frac{5}{3}$ **5)** $\frac{7}{3}$ **6)** $\frac{13}{3}$ **7)** $\frac{5}{4}$ **8)** $\frac{9}{4}$ **9)** $\frac{15}{4}$ **10)** $\frac{7}{6}$ **11)** $\frac{11}{6}$ **12)** $\frac{13}{6}$	**1)** $2\frac{1}{2}$ **2)** $3\frac{1}{2}$ **3)** $5\frac{1}{2}$ **4)** $1\frac{2}{3}$ **5)** $2\frac{1}{3}$ **6)** $4\frac{1}{3}$ **7)** $1\frac{1}{4}$ **8)** $2\frac{1}{4}$ **9)** $3\frac{3}{4}$ **10)** $1\frac{1}{6}$ **11)** $1\frac{5}{6}$ **12)** $2\frac{1}{6}$

Improper Fractions and Mixed Numbers - Answers

Group B	Write these mixed numbers as improper fractions:	
	1) $1\frac{1}{3}$	**1)** $\frac{4}{3}$
	2) $4\frac{1}{3}$	**2)** $\frac{13}{3}$
	3) $5\frac{1}{3}$	**3)** $\frac{16}{3}$
	4) $1\frac{3}{4}$	**4)** $\frac{7}{4}$
	5) $3\frac{3}{4}$	**5)** $\frac{15}{4}$
	6) $5\frac{3}{4}$	**6)** $\frac{23}{4}$
	7) $1\frac{1}{5}$	**7)** $\frac{6}{5}$
	8) $1\frac{2}{5}$	**8)** $\frac{7}{5}$
	9) $1\frac{3}{5}$	**9)** $\frac{8}{5}$
	10) $2\frac{3}{4}$	**10)** $\frac{11}{4}$
	11) $1\frac{3}{5}$	**11)** $\frac{13}{5}$
	12) $2\frac{3}{7}$	**12)** $\frac{17}{7}$

Improper Fractions and Mixed Numbers - Answers

Group C	Write the improper fractions as mixed numbers and vice versa:	
	1) $\frac{35}{4}$	**1)** $8\frac{3}{4}$
	2) $\frac{35}{8}$	**2)** $4\frac{3}{8}$
	3) $\frac{35}{9}$	**3)** $3\frac{8}{9}$
	4) $3\frac{5}{6}$	**4)** $\frac{23}{6}$
	5) $3\frac{5}{7}$	**5)** $\frac{26}{7}$
	6) $3\frac{5}{8}$	**6)** $\frac{29}{8}$
	7) $\frac{47}{5}$	**7)** $9\frac{2}{5}$
	8) $\frac{47}{6}$	**8)** $7\frac{5}{6}$
	9) $\frac{47}{8}$	**9)** $5\frac{7}{8}$
	10) $6\frac{5}{8}$	**10)** $\frac{53}{8}$
	11) $7\frac{5}{8}$	**11)** $\frac{61}{8}$
	12) $9\frac{5}{8}$	**12)** $\frac{77}{8}$

Improper Fractions and Mixed Numbers - Answers

	Question	Answer
	Applied Questions	
1)	How many quarters are there in: **(a)** $3\frac{1}{4}$ **(b)** $5\frac{3}{4}$	**(a)** 13 quarters **(b)** 23 quarters
2)	Which of these improper fractions has the smallest value? **(a)** $\frac{7}{2}$ or $\frac{9}{4}$ or $\frac{8}{5}$ **(b)** $\frac{5}{2}$ or $\frac{9}{7}$ or $\frac{10}{3}$	**(a)** $\frac{8}{5}$ **(b)** $\frac{9}{7}$
3)	Work out. Give your answer as a mixed number. **(a)** $3\frac{1}{2} \times 2\frac{1}{4}$ **(b)** $2\frac{2}{3} \times 3\frac{4}{5}$	**(a)** $7\frac{7}{8}$ **(b)** $10\frac{2}{15}$

Improper Fractions and Mixed Numbers - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Write this improper fraction as a mixed number. $\frac{17}{5}$	$\frac{17}{5} = \frac{3\times5+2}{5} = 3\frac{2}{5}$	**(1)**
2)	Work out. $\frac{4}{7} + \frac{6}{7}$ Circle your answer. $\frac{10}{14}$ $1\frac{3}{7}$ $1\frac{2}{7}$ $\frac{10}{49}$	$\frac{4}{7} + \frac{6}{7} = \frac{4+6}{7} = \frac{10}{7} = 1\frac{3}{7}$	**(1)**
3)	Work out. Give your answer as a mixed number. $\frac{5}{8} \times 11$	$\frac{5}{8} \times 11 = \frac{55}{8}$ **(1)** $\frac{55}{8} = 6\frac{7}{8}$ **(1)**	**(2)**