

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) $2\frac{3}{5}$

12) $2\frac{3}{7}$

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 these calculations.. Give your answers as mixed numbers.

(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 $\frac{17}{5}$ as a mixed number.

.....
(1 mark)

- 2) Work out the value of $\frac{4}{7} + \frac{6}{7}$. Circle your answer.

$$\frac{10}{14}$$

$$1\frac{3}{7}$$

$$1\frac{2}{7}$$

$$\frac{10}{49}$$

(1 mark)

- 3) Work out $\frac{5}{8} \times 11$. Give your answer as a mixed number.

.....
(2 marks)

Improper Fractions and Mixed Numbers - Answers

	Question	Answer
	Skill Questions	
Group A	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) $2\frac{3}{5}$	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) $\frac{35}{4}$ 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) $9\frac{5}{8}$	1) $8\frac{3}{4}$ 2) $4\frac{3}{8}$ 3) $3\frac{8}{9}$ 4) $\frac{23}{6}$ 5) $\frac{26}{7}$ 6) $\frac{29}{8}$ 7) $9\frac{2}{5}$ 8) $7\frac{5}{6}$ 9) $5\frac{7}{8}$ 10) $\frac{53}{8}$ 11) $\frac{61}{8}$ 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 these calculations. Give your answers as mixed numbers. 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 $\frac{17}{5}$ as a mixed number.	$\frac{17}{5} = \frac{3 \times 5 + 2}{5} = 3\frac{2}{5}$	(1)
2)	Work out the value of $\frac{4}{7} + \frac{6}{7}$. 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 $\frac{5}{8} \times 11$. Give your answer as a mixed number.	$\frac{5}{8} \times 11 = \frac{55}{8}$ $\frac{55}{8} = 6\frac{7}{8}$	(1) (1)

Do you have KS4 students who need additional support in maths?

Our specialist tutors will help them develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.