

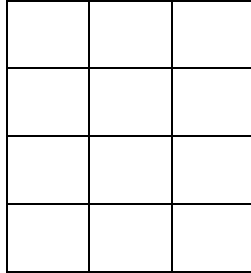
Name: _____

Teacher
Assessment



Section A **Manipulating Fractions** **Grade G / F**

1. (a) Tony has a rectangular garden, divided into square plots. A diagram of his garden is shown.



Tony uses $\frac{1}{3}$ of his garden for growing vegetables.

- (i) Shade $\frac{1}{3}$ of the diagram.

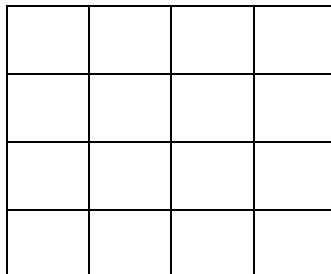
(1)

- (ii) What fraction of Tony's garden is **not** used for growing vegetables?

Answer

(1)

- (b) A diagram of Jim's garden is shown.



- (i) Shade $\frac{3}{4}$ of the diagram.

(1)

- (ii) How many sixteenths are there in $\frac{3}{4}$?

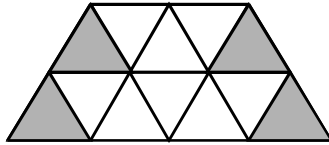
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Answer

(1)

(Total 4 marks)

2. (a) The diagram shows a trapezium divided up by equal sized triangles.



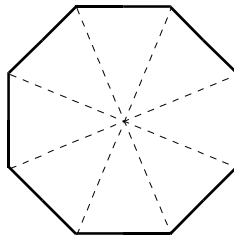
What fraction of the trapezium is shaded?
Give your answer in its simplest form.

.....
.....

Answer.....

(2)

- (b) The diagram shows a regular octagon.



(1)

Shade $\frac{1}{4}$ of the octagon.

(Total 3 marks)

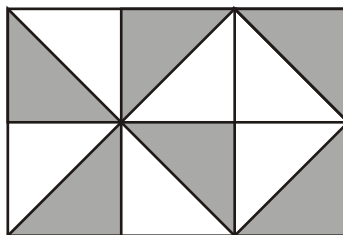
3. Express $\frac{3}{18}$ as a fraction in its simplest form.

.....

Answer

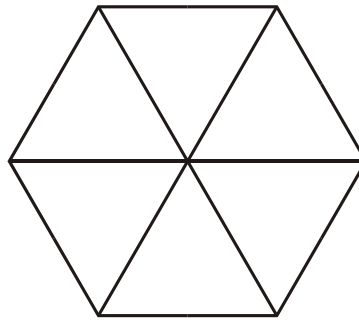
(Total 1 marks)

4. (a) What fraction of this shape is shaded?



Answer

(1)



(b) Shade $\frac{2}{3}$ of this shape.

(1)

(c) Write down another fraction which is equivalent to $\frac{2}{3}$

.....

Answer

(1)

(d) Express $\frac{42}{70}$ as a fraction in its simplest form.

.....

.....

Answer

(2)

(Total 5 marks)

5. Complete the equivalent fractions.

(a) $\frac{3}{5} = \frac{\square}{15}$

(1)

(b) $\frac{2}{\square} = \frac{4}{14}$

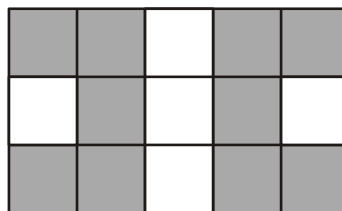
(1)

(c) $\frac{6}{11} = \frac{24}{\square}$

(1)

(Total 3 marks)

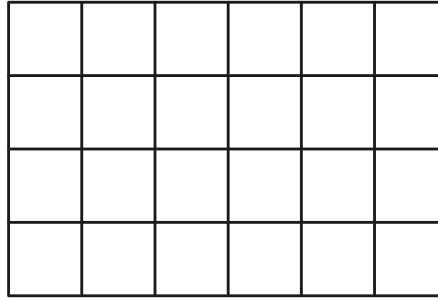
6. (a) What fraction of this shape is shaded?



Answer

(1)

(b) Shade in $\frac{3}{4}$ of this shape.



(1)

(c) Write down a different fraction which is equivalent to $\frac{3}{4}$.

.....

Answer

(1)

(d) Express $\frac{40}{64}$ as a fraction in its simplest form.

.....

.....

Answer

(2)

(Total 5 marks)

7. (a) Change $2\frac{1}{4}$ into an improper fraction.

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.....

Answer

(1)

(b) Change $\frac{16}{3}$ into a mixed number.

.....

.....

Answer

(1)

(Total 2 marks)

Success:

Target:



Section B

Fractions of Amounts

Grade F

1. Work out $\frac{1}{4}$ of 12

.....

Answer

(Total 2 marks)

2. Find $\frac{3}{4}$ of 200

.....

Answer

(Total 1 marks)

3. Work out $\frac{7}{8}$ of 32.

.....

.....

Answer

(Total 2 marks)

4. Work out the following $\frac{2}{5}$ of 45.

.....

.....

Answer

(Total 2 marks)

5. Work out $\frac{3}{7}$ of 28

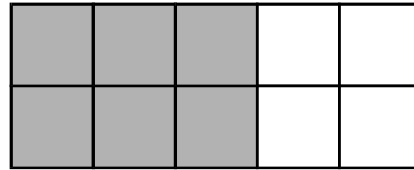
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.....

Answer

(Total 2 marks)

6. (a) What fraction of this shape is shaded?
Give your answer in its simplest form.



Answer

(2)

- (b) Find $\frac{7}{10}$ of £50

.....

.....

Answer £

(2)

(Total 4 marks)

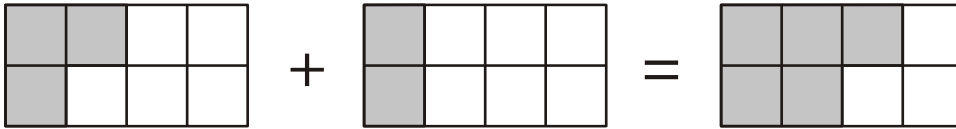
Success:

Target:

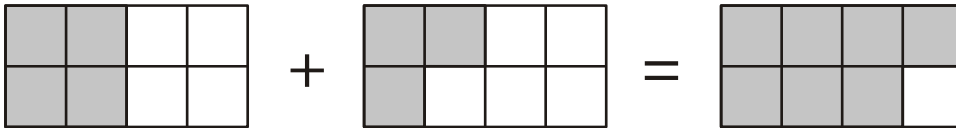


Section C Using Common Denominators Grade D / C

1. This diagram shows the fraction calculation $\frac{3}{8} + \frac{1}{4} = \frac{5}{8}$



Write down the fraction calculation shown by this diagram.



Answer
(Total 1 mark)

2. Heather is revising fractions for her homework.
This is how she answers one of the questions.

$$\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$$

Heather is wrong.

Show the correct way to work out $\frac{1}{2} + \frac{1}{3}$

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.....

.....

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.....

(Total 3 marks)

3. Work out $\frac{1}{4} + \frac{1}{8}$

.....

.....

Answer
(Total 2 marks)

4. Work out $\frac{1}{2} + \frac{1}{5}$

.....
.....
.....

Answer

(Total 2 marks)

5. Calculate $\frac{5}{8} - \frac{1}{4}$

.....
.....

Answer

(Total 2 marks)

6. Work out $\frac{7}{8} - \frac{1}{2}$

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.....
.....

Answer

(Total 2 marks)

7. Work out the value of $\frac{2}{5} + \frac{1}{4}$

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.....
.....
.....

Answer

(Total 2 marks)

8. Work out the following $\frac{2}{5} - \frac{1}{4}$

.....
.....

Answer

(Total 2 marks)

9. Find the value of $\frac{3}{4} - \frac{2}{5}$

.....
.....
.....

Answer
(Total 2 marks)

10. Work out $\frac{2}{5} - \frac{3}{8}$

.....
.....
.....

Answer.....
(Total 2 marks)

11. Work out $2\frac{4}{5} + 3\frac{2}{3}$

.....
.....
.....
.....
.....

Answer
(Total 3 marks)

12. Work out $4\frac{2}{3} + 1\frac{3}{5}$

.....
.....
.....

Answer
(Total 3 marks)

13. Work out $4\frac{1}{5} - 1\frac{2}{3}$

.....
.....
.....
.....

Answer

(Total 3 marks)

14. Find the value of $4\frac{2}{3} - 2\frac{3}{4}$

.....
.....
.....
.....

Answer

(Total 3 marks)

15. Which of these fractions is closest to $\frac{1}{4}$? You **must** show your working.

$$\frac{2}{5} \quad \frac{3}{10} \quad \frac{7}{20} \quad \frac{13}{40}$$

.....
.....
.....
.....
.....
.....

(Total 3 marks)

16. Which of these fractions is closest to $\frac{1}{3}$?

$$\frac{1}{4}$$

$$\frac{3}{8}$$

$$\frac{4}{9}$$

$$\frac{7}{24}$$

You must show all your working.

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.....
.....

Answer

(Total 3 marks)

Success:

Target:



Section D Multiplying and Dividing Fractions Grade D / C

1. Work out $\frac{1}{6} \times \frac{3}{5}$

.....
.....

Answer

(Total 1 mark)

2. Calculate $\frac{3}{7} \times \frac{2}{5}$

.....
.....

Answer

(Total 1 mark)

3. Work out $\frac{3}{8} \times \frac{2}{9}$

.....
.....
.....

Answer

(Total 1 mark)

4. Work out

(a) 0.2×0.4

.....
.....

Answer

(1)

(b) $\frac{1}{3} \times \frac{4}{5}$

.....
.....

Answer

(1)(Total 2 marks)

5. Work out $\frac{2}{5} \times \frac{1}{4}$

.....
.....

Answer

(Total 1 mark)

6. (a) Work out $4.6 - 2.38$

.....
.....
.....

Answer

(1)

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

Give your answer in its simplest form.

.....
.....

Answer

(2)

(Total 3 marks)

7. (a) Work out $\frac{1}{3} \div \frac{1}{9}$

.....
.....

Answer

(Total 2 marks)

8. Work out $\frac{3}{8} \div \frac{1}{3}$

.....
.....

Answer

(Total 2 marks)

9. (a) Work out $\frac{3}{7} \times 28$

.....
.....

Answer

(2)

(b) Work out 0.3×0.1

.....
.....

Answer

(1)

(c) Work out $\frac{3}{5} \div 6$

.....
.....

Answer

(2)

(Total 5 marks)

10. (a) Write down the reciprocal of 0.2

.....

Answer

(2)

(b) Fill in the boxes to make these statements correct.

(i) $\frac{1}{5} \times \square = 1$

.....

(1)

(ii) $\frac{3}{4} \times \frac{\square}{\square} = 1$

.....

(1)(Total 4 marks)

11. Work out $1\frac{3}{4} \times 1\frac{4}{7}$

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.....
.....

Answer

(Total 3 marks)

12. Work out $4\frac{2}{3} \div 1\frac{3}{4}$

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Answer

(Total 3 marks)

13. Work out the reciprocal of 1.5
Give your answer as a fraction in its simplest form.

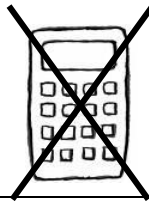
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Answer

(Total 2 marks)

Success:

Target:



Section E **Worded Problems** **Grade C**

1. Danielle eats $\frac{3}{4}$ of a bar of chocolate every day.

How many bars of chocolate does Danielle eat in six days?

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.....

Answer

(Total 2 marks)

2. A room has four identical walls. Each wall needs $\frac{3}{5}$ of a tin of paint.

How many tins of paint are needed to paint all four walls?

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.....
.....

Answer

(Total 3 marks)

3. There are 24 passengers on a bus.
 $\frac{1}{4}$ of the passengers are men.
 $\frac{1}{3}$ of the passengers are women.
The rest of the passengers are children.

How many passengers are children?

.....
.....
.....
.....

Answer

(Total 3 marks)

4. There are 40 sweets in a bag.

Ben eats $\frac{1}{8}$ of the 40 sweets.

Jerry eats $\frac{1}{5}$ of the 40 sweets.

What fraction of the sweets do Ben and Jerry eat altogether?

.....
.....
.....
.....

Answer.....

(Total 3 marks)

5. A supermarket sells 500 kg of potatoes.

$\frac{3}{10}$ of the potatoes are sold in 5 kg bags.

How many 5 kg bags of potatoes does the supermarket sell?

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.....
.....
.....

Answer bags

(Total 4 marks)

6. On Monday Joe drinks $2\frac{1}{3}$ pints of milk.

On Tuesday he drinks $1\frac{3}{4}$ pints of milk.

Work out the total amount of milk that Joe on Monday and Tuesday.

.....
.....
.....
.....
.....

Answer pints

(Total 3 marks)

7. Lucy makes some curtains for her living room and her bedroom.
In the living room she uses $3\frac{2}{3}$ metres of material.
In the bedroom she uses $2\frac{4}{5}$ metres of material.
How many metres of material does she use altogether?

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.....
.....

Answer m
(Total 3 marks)

8. Shalina has two cats and has asked a neighbour to feed them while she is away on holiday.
Each cat will eat $\frac{3}{4}$ of a tin of food every day.
Shalina is going to be away for seven days.

What is the least number of tins of food needed to feed **both** cats?

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.....
.....
.....
.....

Answer
(Total 3 marks)

9. Petra has $6\frac{3}{4}$ metres of ribbon.

She makes 6 blouses and uses $\frac{2}{5}$ of a metre of ribbon on each blouse.

How much ribbon does she have left?

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.....
.....
.....

Answer m
(Total 4 marks)

10. Linda uses $\frac{3}{5}$ of a tin of paint to paint a fence panel.

What is the **least** number of tins she needs to paint 8 fence panels?

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.....
.....

Answer.....
(Total 3 marks)

Success:

Target: