Name

Class

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Fractions (9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

•Use **black** ink or ball-point pen.

•Fill in the boxes at the top of this page with your name, centre number and candidate number.

- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.

•Diagrams are NOT accurately drawn, unless otherwise indicated.

•You must show all your working out.

•If the question is a **1F** question you are not allowed to use a calculator.

•If the question is a 2F or a 3F question, you may use a calculator to help you answer.

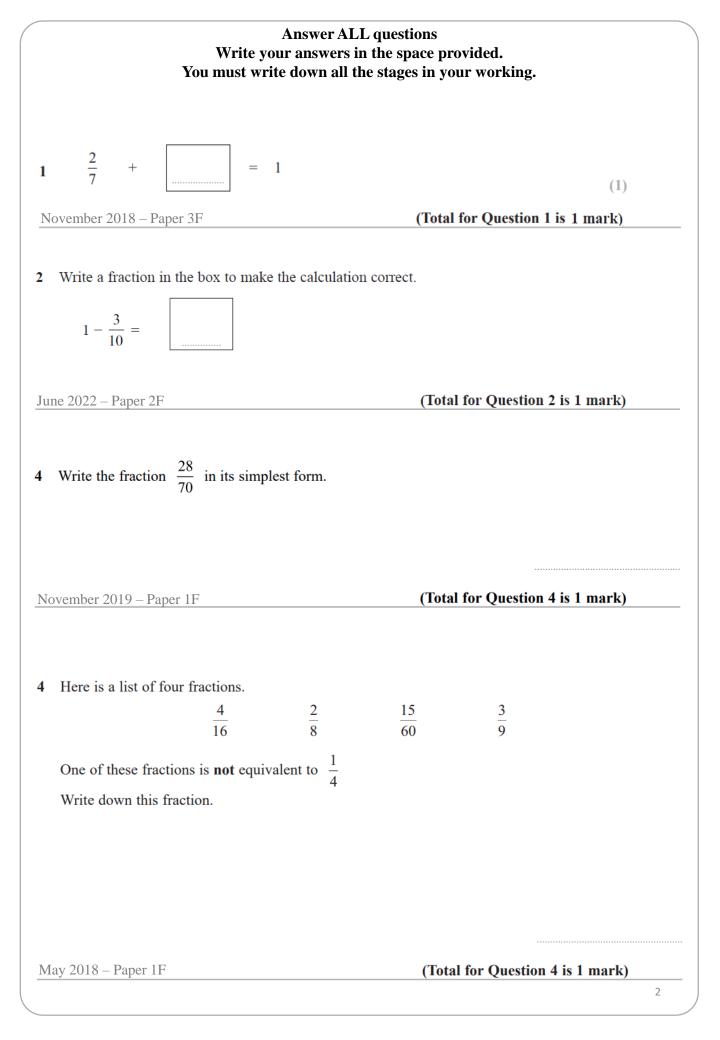
Information

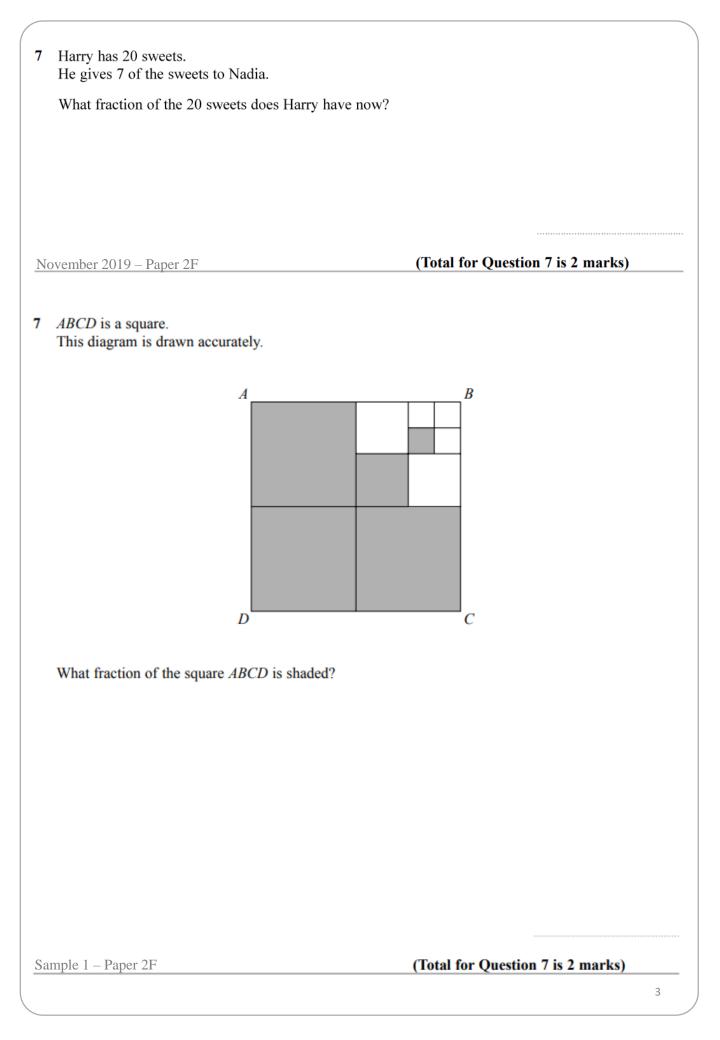
•The marks for each question are shown in brackets

- use this as a guide as to how much time to spend on each question.

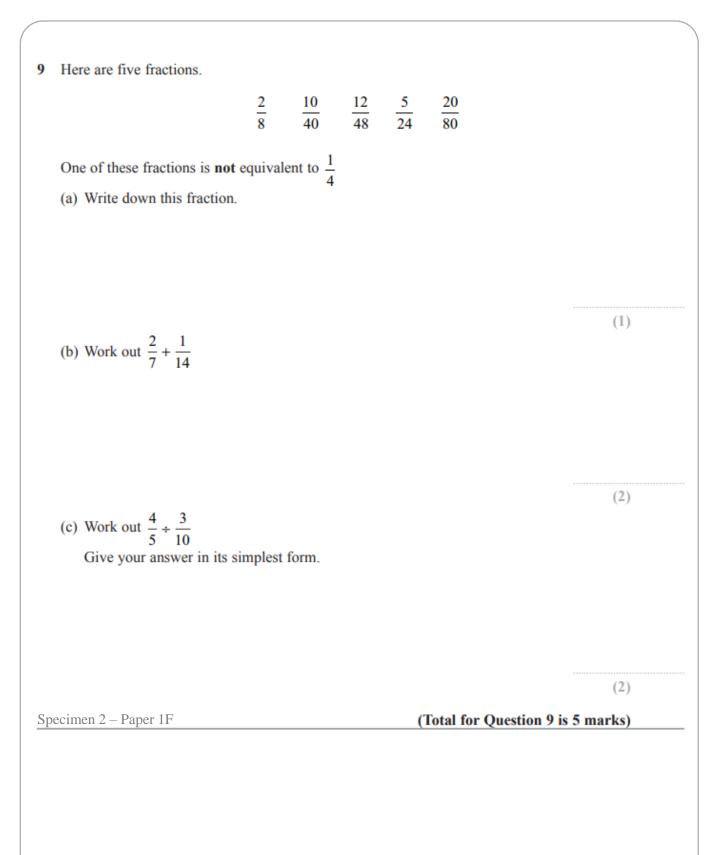
Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.



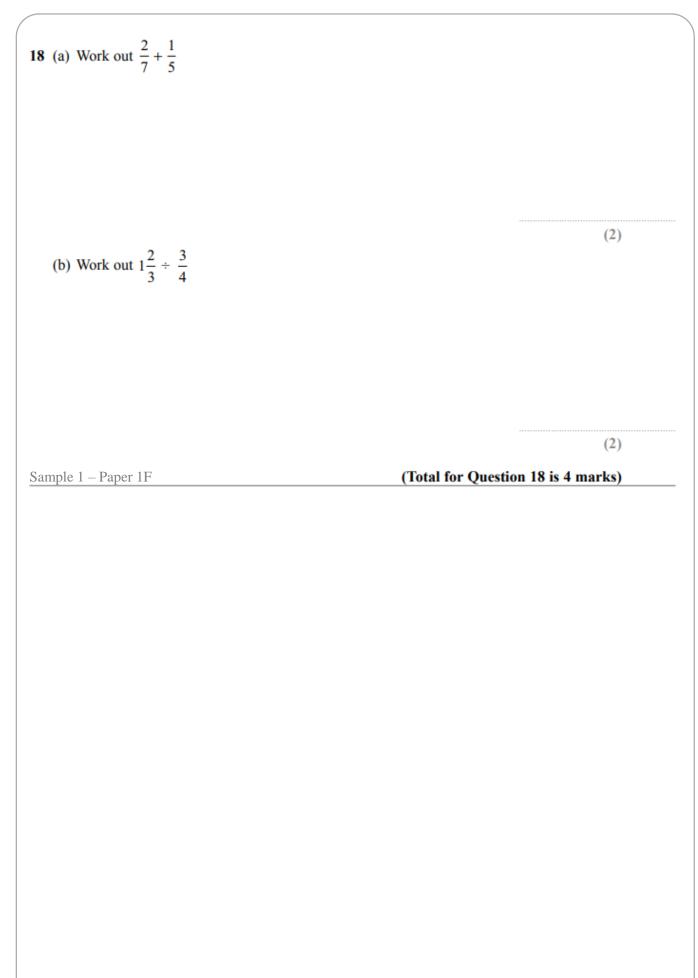


| 8 (a) Work out $\frac{5}{8} \times \frac{3}{4}$ | |
|---|-----------------------------------|
| (b) Work out $\frac{2}{3} - \frac{1}{4}$ | (1) |
| | (2) |
| June 2017 – Paper 1F | (Total for Question 8 is 3 marks) |
| | |
| | |
| | 4 |



| | $\frac{15}{20}$ | $\frac{10}{16}$ | 18 | - | | |
|-------------------|-----------------|-----------------|----------------|---------------|-----------------------------|---------------------------|
| | | 10 | 24 | $\frac{6}{8}$ | $\frac{9}{12}$ | |
| | | | $-\frac{3}{4}$ | ivalent to | ons is not equ | One of these fract |
| | | | | | 1? | (a) Which fraction |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| (1) | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | $\frac{1}{2} + \frac{5}{6}$ | b) Work out $\frac{1}{1}$ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| (2) | | | | | | |
| on 11 is 3 marks) | for Question 1 | (Total f | | | er IF | ember 2018 – Pape |
| ic | for Quest | (Total f | | | er 1F | ember 2018 – Pape |

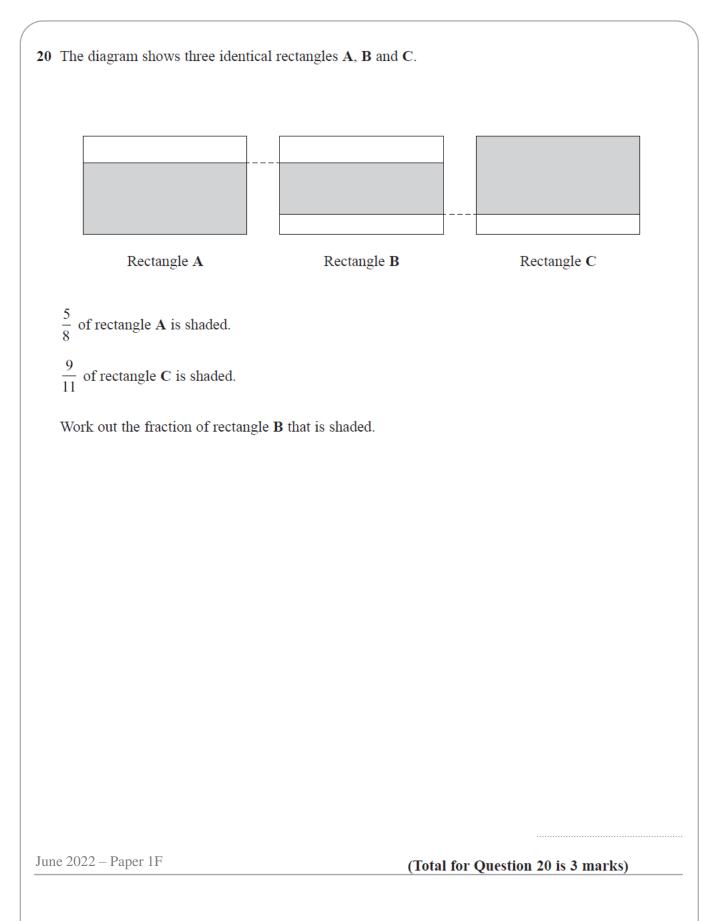
| 2 Find the number that is exactly halfway between - | $\frac{1}{12}$ and $\frac{3}{2}$ |
|--|------------------------------------|
| | 10 5 |
| | |
| | |
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| | |
| | |
| fovember 2019 – Paper 2F | (Total for Question 12 is 2 marks) |
| 5 Work out $\frac{6}{7} \times \frac{5}{12}$ | |
| 7 12Give your answer as a fraction in its simplest form. | |
| | |
| | |
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| | |
| | |
| | |
| June 2023 – Paper 1F | (Total for Question 15 is 2 marks) |



19 (a) Work out
$$\frac{2}{3} - \frac{1}{5}$$

(b) Work out $\frac{2}{3} \times \frac{3}{4}$
Give your answer as a fraction in its simplest form.
(2)
June 2019 – Paper 1F (Total for Question 19 is 4 marks)

| 20 (a) Work out $1\frac{3}{5} + 2\frac{1}{4}$ Give your answer as a mixed number. | |
|---|---|
| (b) Show that $2\frac{2}{3} \div 6 = \frac{4}{9}$ | (2) |
| November 2022 – 1F | (2) (Total for Question 20 is 4 marks) |



21 Show that

 $2\frac{1}{3} \times 3\frac{3}{4} = 8\frac{3}{4}$

May 2020 – Paper 1F

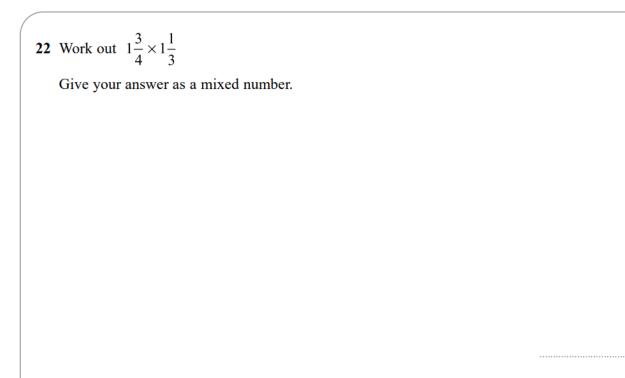
(Total for Question 21 is 3 marks)

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

Give your answer as a mixed number.

November 2021 – Paper 1F

(Total for Question 22 is 3 marks)



November 2019 – Paper 1F

(Total for Question 22 is 3 marks)

| 2 (a) Work out $\frac{2}{5} + \frac{1}{4}$ | |
|--|------------------------------------|
| | |
| | |
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| | |
| | |
| | |
| | (2) |
| ovember 2017 – Paper 1F | (Total for Question 22 is 2 marks) |