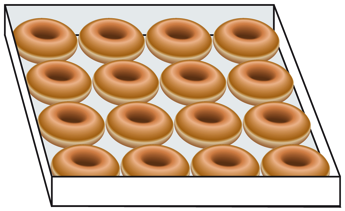
Multiple-choice section

Question 1 [3.1]

If Liana ate of the donuts in this box, how many did she eat?



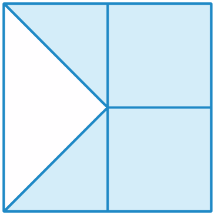
A 2 B 5 C 8 D 10

Question 2 [3.1]

Which of the following improper fractions are equivalent to the whole number 4?

A B C D

Question 3 [3.1]



The fraction of this square that is shaded is:

A B C D

Question 4 [3.2]

Which of the following fractions is the simplest form of ?

A  B  C  D 

Question 5 [3.3]

Which of the following is closest to ?

A B C D

Question 6 [3.4]

 –  =

A  B C 1 D 1

Question 7 [3.4]

Which whole number is closest to the sum of and ?

A 1 B 2 C 12 D 23

Question 8 [3.5]

 of $35 =

A $5 B $7 C $10 D $14

Question 9 [3.6]

 ÷  =

A B  C  D

Question 10 [3.7]

After travelling 35 km, the Ling family are of the way to the theme park. How far is it from their house to the theme park?

A 39 km B 40 km C 70 km D 140 km

Multiple-choice total marks: \_\_\_\_ / 10

Short answer section

Question 11 2 marks [3.1]

Use words from the list below to complete the following sentences.

*improper fractions simplify unit fractions proper fractions add divide*

(a) You \_\_\_\_\_\_\_\_\_\_\_\_\_\_ fractions by cancelling common factors in the numerator and denominator.

(b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are between 0 and 1.

Question 12 2 marks [3.2]

Write two fractions that are equivalent to .

Question 13 1 mark [3.1]

Write a fraction or mixed number to show the amount that each person receives if 2 pizzas are shared equally between 3 people.

Question 14 3 marks [3.2]

Find equivalent fractions by completing the following.

(a) **** (b)  = **** (c) 

Question 15 6 marks [3.3]

Write a < or > symbol between each of the following pairs of fractions to make a true statement. Write a brief reason or calculation to justify each answer.

(a)  \_\_\_\_\_\_

(b) \_\_\_\_\_\_

(c) \_\_\_\_\_\_\_

Question 16 6 marks [3.4]

Calculate the following. Write your answers in simplest form and as mixed numbers, if possible.

(a) – (b) + (c)  – 

Question 17 6 marks [3.5]

Calculate the following. Write your answers in simplest form and as mixed numbers, if possible.

(a) of $20 (b)  ×  (c) 

Question 18 6 marks [3.6]

Calculate the following. Write your answers in simplest form and as mixed numbers, if possible.

(a) (b) ÷  (c)

Question 19 4 marks [3.7]

Simplify the following by using the correct order of operations. Write your answers in simplest form, and as mixed numbers if appropriate.

(a) 5 +  ×  (b)

Short answer total: \_\_\_\_\_\_\_ / 36

Extended answer section

Question 20 9 marks [3.1, 3.2, 3.3]

(a) Use arrows to indicate the position of the fractions or mixed numbers below on the following number line.

, , , 

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(b) Write the mixed numbers in the list above as improper fractions.

(c) Which of the fractions you have placed on the number line would be closest to ?

(d) Place this list of fractions in ascending order (from smallest to largest). You could use the number line in part (a) to help you compare the sizes of fractions in the list.  
, , , –, 

(e) Imagine you could extend the number line in (a) further to the right. How many whole numbers would there be between and ?

Question 21 9 marks [3.4, 3.5, 3.6]

Tasha has a business baking and delivering cakes. Her recipe for chocolate cake says that she needs cups of plain flour for each cake.

(a) Tasha has 1 full packet of flour, plus another packet that is full, and another that is full.   
If she were to combine the opened packet with the full ones, how many packets of flour would she have altogether? Write your answer as a mixed number in simplest form.

(b) Each packet has 10 cups of flour in it. Use your answer from (a) to calculate how many cups of flour Tasha has altogether.

(c) Tasha wants to make 7 cakes. Will one full packet of flour be enough for this? Show how you arrived at your answer.

Extended answer total: \_\_\_\_\_\_\_ / 18

TOTAL test marks: \_\_\_\_\_\_\_ / 64