



KS1.M32 Fractions: Halves, Quarters and Thirds

STA NC-KS1-MATHS-STA · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** Look at 6 apples in a row. Circle half of them.

There are 6 apples.

Figure (to be drawn): Six apples in a row (six separate apples).



(1)

- 2** There are 8 biscuits on a plate. Put a ring around a quarter of them.

There are 8 biscuits.

Figure (to be drawn): Eight biscuits shown on a plate.



(1)

- 3** Shade half of the shape. The shape is a rectangle divided into 2 equal parts.

Figure (to be drawn): A rectangle with a line down the middle dividing it into 2 equal parts.



(1)

4 Write one half of 10.

Answer: ____

(1)

5 There are 12 strawberries in a box. Shade one quarter of them in your head and write how many are shaded.

Answer: ____

Figure (to be drawn): Twelve strawberries grouped together.

(1)

6 Circle one third of these crayons. There are 9 crayons.

Figure (to be drawn): Nine crayons in a row.

(1)

7 What is half of 14?

Answer: ____

(1)

- 8** A pizza has 4 equal slices. Sam eats 1 slice. What fraction of the pizza is left?

Answer: ____

Figure (to be drawn): A circle divided into 4 equal slices, one slice removed.



(1)

- 9** Draw one quarter of a shape. The shape is a square divided into 4 equal small squares.

Figure (to be drawn): A square shown divided into 4 equal small squares (2 by 2 grid).



(1)

- 10** Which is the same as one half? Tick the correct box.

A $\frac{1}{4}$ B $\frac{2}{4}$ C $\frac{1}{3}$

☐ $\frac{1}{4}$

☐ $\frac{2}{4}$

☐ $\frac{1}{3}$

- 11** There are 18 beads on a necklace. What is one third of 18?

Answer: ____

Figure (to be drawn): Eighteen beads shown as small circles on a line.



(1)

12 Write a quarter of 20.

Answer: ____



(1)

13 Four friends share 12 sweets equally. How many sweets does each friend get?

Answer: ____

Figure (to be drawn): Twelve sweets pictured in a pile.



(1)

14 Match the fractions to the pictures. Picture A shows a circle half shaded. Picture B shows a circle quarter shaded.

Write the fraction for A and for B.

A: ____ B: ____

Figure (to be drawn): Two circles: A half shaded, B one quarter shaded.



(2)

15 There are 10 pencils. Write one fifth of 10.

Answer: ____

Figure (to be drawn): Ten pencils in a row.



(1)

16 Look at 2 shapes. Shape A is split into 4 equal parts with 2 parts shaded. Shape B is split into 2 equal parts with 1 part shaded.

Are these the same amount? Circle Yes or No.

Answer: Yes / No

Figure (to be drawn): Shape A: 2 of 4 parts shaded ($\frac{2}{4}$). Shape B: 1 of 2 parts shaded ($\frac{1}{2}$).

☐ Yes

☐ No

17 PARTS a and b. a) There are 15 stickers. What is one third of 15?

b) Circle if the answer is a whole number or not a whole number.

Answer a: ____ Answer b: whole number / not a whole number

Figure (to be drawn): Fifteen small sticker images.

(a) a) What is one third of 15?

(1)



(b) b) Is that a whole number? Circle whole number or not a whole number.

(1)

☐ whole number

☐ not a whole number

18 There are 6 orange crayons and 6 blue crayons. What fraction of the crayons are orange?

Answer: ____

Figure (to be drawn): A box with 12 crayons: 6 orange and 6 blue.



(1)

Mark scheme • KS1.M32 Fractions: Halves, Quarters and Thirds

Question 1

- **B1** 3 apples circled, any three of the six, oe
- Answer: **3 apples circled (half of 6 is 3).**

Question 2

- **B1** 2 biscuits ringed, oe
- Answer: **2**

Question 3

- **B1** One of the two equal parts shaded, showing half shaded, oe
- Answer: **One of the two equal parts shaded (half).**

Question 4

- **B1** 5 cao
- Answer: **5**

Question 5

- **B1** 3 cao (one quarter of 12 is 3)
- Answer: **3**

Question 6

- **B1** 3 crayons circled, oe
- Answer: **3**

Question 7

- **B1** 7 cao
- Answer: **7**

Question 8

- **B1** $\frac{3}{4}$ cao
- Answer: **$\frac{3}{4}$**

Question 9

- **B1** One small square shaded or marked, showing one quarter, oe
- Answer: **One of the four small squares shaded ($\frac{1}{4}$).**

Question 10

- **B1** Tick B $\frac{2}{4}$ cao
- Answer: **$\frac{2}{4}$**

Question 11

- **B1** 6 cao (18 divided by 3 is 6)
- Answer: **6**

Question 12

- **B1** 5 cao
- Answer: **5**

Question 13

- **B1** 3 cao (12 divided by 4 is 3)
- Answer: **3**

Question 14

- **B1** $A = \frac{1}{2}$ cao
- **B1** $B = \frac{1}{4}$ cao
- Answer: **A: $\frac{1}{2}$ B: $\frac{1}{4}$**

Question 15

- **B1** 2 cao ($\frac{1}{5}$ of 10 is 2)
- Answer: **2**

Question 16

- **B1** Yes cao ($\frac{2}{4} = \frac{1}{2}$)
- Answer: **Yes**

Question 17

- (a) **B1** 5 cao
- (a) Answer: **5**
- (b) **B1** whole number cao
- (b) Answer: **whole number**

Question 18

- **B1** $\frac{6}{12}$ cao (which can be simplified to $\frac{1}{2}$ but $\frac{6}{12}$ is acceptable) oe
- Answer: **$\frac{6}{12}$**