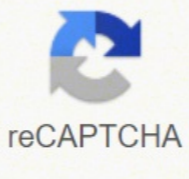




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Decimals and Percentages Assessment - Questions

Name: _____ Date: _____

Decimals and Percentages Assessment

1 Give the place value of each number in bold.

a. 256 _____
 b. 555 _____
 c. 23,399 _____
 d. 56,902 _____
 e. 12,344 _____
 f. 381,74 _____
 g. 95,20 _____

2 Write the thousandths decimal that comes next.

a. 2.341 _____
 b. 6.573 _____
 c. 8.231 _____
 d. 94.542 _____
 e. 10.204 _____
 f. 784.233 _____
 g. 85.477 _____

3 Write these decimals in ascending order.

a. 0.5, 0.4, 0.2, 0.6, 0.4, 0.1 _____
 b. 0.15, 0.24, 0.11, 0.22, 0.21, 0.2 _____
 c. 0.4, 0.55, 0.45, 0.46, 0.41, 0.5 _____
 d. 5.8, 5.802, 5.82, 5.86, 5.2, 5.87 _____
 e. 7.605, 7.645, 7.642, 7.565, 7.645 _____

4 Write these decimals in descending order.

a. 0.6, 0.4, 0.7, 0.1, 1.0, 0.9 _____
 b. 0.52, 0.18, 0.11, 0.1, 0.75, 0.15 _____
 c. 0.24, 0.28, 0.23, 0.22, 0.3, 0.27 _____
 d. 1.14, 1.15, 1.2, 1.10, 1.1, 1.15 _____
 e. 3.25, 3.56, 3.17, 3.32, 3.85, 3.22 _____

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Simplifying Ratios (Level 2)

Example

- a. Simplify 7 : 14 b. Simplify 32 : 24 c. Write 5 : 3 in the form 1 : n.

a. Divide both sides by 7. b. Divide both sides by 8. c. Divide both sides by 5.

$$7 : 14 = \frac{7}{7} : \frac{14}{7} = 1 : 2$$

$$32 : 24 = \frac{32}{8} : \frac{24}{8} = 4 : 3$$

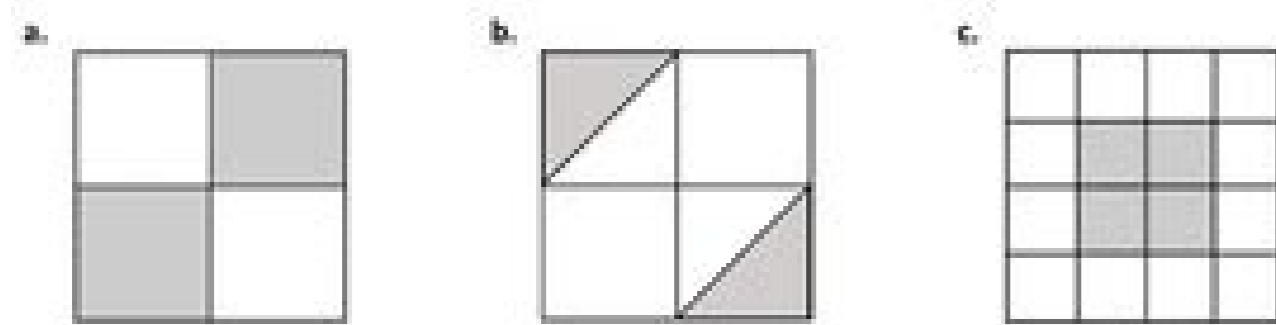
$$5 : 3 = \frac{5}{5} : \frac{3}{5} = 1 : \frac{3}{5}$$

1. Write each of these ratios in its simplest form:

- a. 3 : 6 b. 5 : 15 c. 24 : 6
 d. 4 : 10 e. 25 : 30 f. 18 : 12
 g. 60 : 90 h. 28 : 16 i. 21 : 35

2. Amir mixes 600 ml of apple juice with 800 ml of orange juice to make a fruit punch. What is the ratio of apple juice to orange juice written in its simplest form?

3. For each diagram below, write the ratio of the shaded area to the unshaded area in its simplest form.



4. Write each of these ratios in the form 1 : n.

- a. 2 : 8 b. 3 : 2 c. 4 : 10
 d. 14 : 5 e. 4 : 7 f. 6 : 5

5. Write each of these ratios in the form n : 1.

- a. 2 : 5 b. 9 : 6 c. 10 : 13
 d. 8 : 9 e. 25 : 70 f. 3 : 0.5

6. The ratio of British Pounds to US Dollars is 4 : 5. How much is £1 worth in US Dollars?

7. In a school, there are 750 students and 30 teachers.

- a. Write the ratio of students to teachers in the form n : 1.
 b. Hence, what is the mean number of students per class (assuming one teacher per class)?

8. On the right are the ingredients needed to make some pancakes.

- a. What is the ratio of eggs to flour to milk in its simplest form?
 b. Holly wants to make pancakes but only has 2 eggs. How much milk will she need?
 c. Write the ratio of eggs to flour to milk in the form n : m : 1.

Pancakes	
3 large eggs	
150 g plain flour	
300 ml milk	

Unit 1: Ratio and Proportion

1. Simplify the following ratios:

a. 12 : 18
 b. 24 : 36
 c. 30 : 45
 d. 40 : 60
 e. 50 : 75
 f. 60 : 90
 g. 80 : 120
 h. 90 : 135
 i. 100 : 150
 j. 120 : 180

2. Write the following ratios in their simplest form:

a. 15 : 25
 b. 20 : 30
 c. 24 : 36
 d. 30 : 45
 e. 40 : 60
 f. 50 : 75
 g. 60 : 90
 h. 80 : 120
 i. 90 : 135
 j. 100 : 150
 k. 120 : 180

3. Write the following ratios in the form 1 : n:

a. 2 : 8
 b. 3 : 15
 c. 4 : 20
 d. 5 : 25
 e. 6 : 30
 f. 7 : 35
 g. 8 : 40
 h. 9 : 45
 i. 10 : 50
 j. 11 : 55
 k. 12 : 60
 l. 13 : 65
 m. 14 : 70
 n. 15 : 75
 o. 16 : 80
 p. 17 : 85
 q. 18 : 90
 r. 19 : 95
 s. 20 : 100
 t. 21 : 105
 u. 22 : 110
 v. 23 : 115
 w. 24 : 120
 x. 25 : 125
 y. 26 : 130
 z. 27 : 135
 aa. 28 : 140
 ab. 29 : 145
 ac. 30 : 150
 ad. 31 : 155
 ae. 32 : 160
 af. 33 : 165
 ag. 34 : 170
 ah. 35 : 175
 ai. 36 : 180
 aj. 37 : 185
 ak. 38 : 190
 al. 39 : 195
 am. 40 : 200
 an. 41 : 205
 ao. 42 : 210
 ap. 43 : 215
 aq. 44 : 220
 ar. 45 : 225
 as. 46 : 230
 at. 47 : 235
 au. 48 : 240
 av. 49 : 245
 aw. 50 : 250
 ax. 51 : 255
 ay. 52 : 260
 az. 53 : 265
 ba. 54 : 270
 bb. 55 : 275
 bc. 56 : 280
 bd. 57 : 285
 be. 58 : 290
 bf. 59 : 295
 bg. 60 : 300
 bh. 61 : 305
 bi. 62 : 310
 bj. 63 : 315
 bk. 64 : 320
 bl. 65 : 325
 bm. 66 : 330
 bn. 67 : 335
 bo. 68 : 340
 bp. 69 : 345
 bq. 70 : 350
 br. 71 : 355
 bs. 72 : 360
 bt. 73 : 365
 bu. 74 : 370
 bv. 75 : 375
 bw. 76 : 380
 bx. 77 : 385
 by. 78 : 390
 bz. 79 : 395
 ca. 80 : 400
 cb. 81 : 405
 cc. 82 : 410
 cd. 83 : 415
 ce. 84 : 420
 cf. 85 : 425
 cg. 86 : 430
 ch. 87 : 435
 ci. 88 : 440
 cj. 89 : 445
 ck. 90 : 450
 cl. 91 : 455
 cm. 92 : 460
 cn. 93 : 465
 co. 94 : 470
 cp. 95 : 475
 cq. 96 : 480
 cr. 97 : 485
 cs. 98 : 490
 ct. 99 : 495
 cu. 100 : 500

1) Convert the following

- 5kg = _____ g
- 7.5kg = _____ g
- 500g = _____ kg
- 500kg = _____ tonnes
- 1.2 tonnes = _____ kg
- 45g = _____ kg
- 38.44kg = _____ g
- 23231g = _____ kg

2) Here are five masses:
2kg, 1tonne, 970g, 156kg, 4500g
 Write the masses in order, starting with the lightest.

3) Mark an arrow (↓) on the scale to show the reading for 350g and 1.25kg.

4) What is the total mass below?

Extension:

- 1 kilogram of grapes costs £5.80 Megan buys 700 grams of grapes. How much does she pay?
- 1 kilogram of cheese costs £13.50 Megan buys a piece of cheese costing £2.49. What is the mass of the cheese to the nearest 100 grams?
- Every 100g of brown bread contains 6g of fibre. A loaf of bread weighs 800g and has 20 equal slices. How much fibre is there in one slice?

8)

One toffee apple needs:
 1 stick,
 100g of sugar,
 1 apple.

50 sticks
cost £1.25

1 kg of sugar
costs £0.99

100 apples
cost £22.50

Children buy just enough sticks, sugar and apples to make 100 toffee apples.
 They sell all 100 toffee apples for £1 each.
 The profit goes to charity.
 Work out how much money goes to charity.

Bar Models I

Name: _____
 Teacher: _____

1 Work out the missing values.

.....

.....

.....

2 Use the diagram to complete the number sentences.

..... + =

..... + =

..... - =

..... - =

3 Complete all the missing values.

22 + = 38

..... + =

..... - =

..... - =

Page 1

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