

Put the following amounts of bitcoin (BTC) in order, from smallest to largest.



	197 BTC	201 BTC	124 BTC	281 BTC	179 BTC
-					
1	1				







Hours playing Raider's Peril a) What is the time



a) What is the time difference between the person who raids the most and the person who raids the least?

b) Who raids for 180 minutes per night?

Mixed Maths Challenge Cards

Draw a gemstone shape which has two pairs of parallel lines.



5



Which direction is she facing now?





Milana has a spelling test twice a week.

How many spelling tests does Milana have over a fortnight?



Mixed Maths Challenge Cards

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Computing class lasts for 1 hour. There are two sessions per week.

How many minutes of computing are there each week?



8



Mixed Maths Challenge Cards

Zircon begins playing Raider's Peril at 7:30 p.m. and finishes at 10:15 p.m.

How long has he been raiding for?



9

Mixed Maths Challenge Cards

The Brittlestar guild trek 12km on Monday, 32km on Tuesday and 47km on Wednesday to reach the Gutvine stronghold.

How many kilometres do they trek altogether?



One fire opal spear weighs 1kg, whereas a diamond axe weighs 1237 grams.

Which is heavier and by how many grams?



Mixed Maths Challenge Cards Answers

- 124 BTC, 179 BTC, 197
 BTC, 201 BTC, 281 BTC
- 2. $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$ or 1 whole box of gems
 - 3. $\frac{2}{3}$
 - 4. a) 2 hours 30 minutes or 2.5 hours or 150 minutes
 b) Jaden
 - 5. A drawing of a gemstone with two pairs of parallel lines e.g. a parallelogram

- 6. Katka is facing south.
- 7. $2 \times 2 = 4$ spelling tests
- 8. 2 × 60 = 120 minutes
- 9. 2 hours 45 minutes
- 10. $\pounds 32.49 \pounds 28.50 = \pounds 3.99$
- 11. 12 + 32 + 47 = 91km
- 12. 1237 1000 = 237

A diamond axe is 237g heavier.



Mixed Maths Challenge Cards



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Catanna discovers $\frac{1}{4}$ box of onyx gems and $\frac{2}{8}$ box of topaz gems. She adds them to the $\frac{3}{8}$ box of opal gems that she already has.

What fraction has she discovered in total?





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Milana practises her spelling tests for a quarter of an hour each week.

How long does she practise for over eight weeks?



Mixed Maths Challenge Cards



Each computing class lasts for an hour and a quarter. There are two lessons each week.

How many minutes is this per week?



How long has he been raiding for?





10

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The new Raider's Peril game costs £32. A sale offers $\frac{1}{4}$ off the price.

How much is the game?

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The Brittlestar guild trek for one hour and two minutes on Monday and 72 minutes on Tuesday, to reach the Gutvine stronghold.

On which day do they travel for the longest time?



Mixed Maths Challenge Cards

12

One fire opal spear weigh 2.6kg, whereas a diamond axe weighs 2700 grams. Which weighs the most

and by how many grams?

11

Mixed Maths Challenge Cards Answers

- 8081 BTC, 9204 BTC, 10 089 BTC, 18 057 BTC, 20 801 BTC
- 2. $\frac{1}{4} = \frac{2}{8}$ $\frac{2}{8} + \frac{2}{8} + \frac{3}{8} = \frac{7}{8}$
- 3. $\frac{1}{10}$ of 24 hours = 2.4 hours = 144 minutes

4.	Katka	Jaden	Perian
	69%	68%	66%

a) Katka raids the most.b) Perian raids for the least amount of time.

5. A drawing of a gemstone with two pairs of parallel

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- lines e.g. a parallelogram
- 6. Katka is facing south-west.
- 7. $\frac{1}{4} \times 8 = 2$ hours
- 1 hour 15 minutes = 75 minutes
 75 × 2 = 150 minutes
- 9. 5 hours 32 minutes
- 10. $\pounds 32 \div 4 = \pounds 8$ $\pounds 32 - \pounds 8 = \pounds 24.00$
- 11. Tuesday (62 minutes < 72 minutes)
- 12. 12 + 32 + 47 = 91km 1.6kg = 2600g 2700 - 2600 = 100g Diamond axe is 100g heavier.

Mixed Maths Challenge Cards

Put the following amounts of bitcoin (BTC) in order, from smallest to largest.



108 057 BTC	100 801 BTC	109 204 BTC	108 081 BTC	100 789 BTC

Mixed Maths Challenge Cards

Catanna discovers $3\frac{1}{4}$ boxes of opal gems and $5\frac{3}{8}$ boxes of topaz gems. She adds them to the $9\frac{4}{16}$ boxes of pink gems that she already has.

How many boxes of gems has Catanna got in total? Write your answer as a mixed number.



Mixed Maths Challenge Cards



Katka spends approximately 15% of each 24-hour day playing Raider's Peril.

How long does she play for?

Mixed Maths Challenge Cards This table shows what proportion of their evenings these characters spend playing Raider's Peril. Katka Jaden Perian 0.68 33/50 69% a) What fraction of the evening does Jaden play for? Write your answer in its simplest form.

b) Who raids for 66% of an evening?



Mixed Maths Challenge Cards

The length of one side of the Gutvine stronghold is 18.7m, and its width is 24.9m.

What is the total perimeter of the stronghold?

5

Mixed Maths Challenge Cards

Katka is travelling north-east but she hears a noise and turns clockwise to face west.

How many degrees has she turned?



Mixed Maths Challenge Cards



Milana practises her spelling tests three times a week, for 17 minutes each time.

How many minutes does she practise for over eight weeks?



Mixed Maths Challenge Cards



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Zircon begins playing Raider's Peril at 15:47 and finishes 277 minutes later.

What time does Zircon finish raiding?

9

