To solve division problems with a remainder - Questions

1. Make stick squares or triangles to help solve the following. The first one has been done for you.

a. 16 ÷ 3 =

b. 18 ÷ 4 =

c. 22 ÷ 3 =

d. 9 ÷ 4 =

e. 21 ÷ 4 =

f. 10 ÷ 3 =

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2. Use a number line and repeated subtraction to solve:

a. 34 ÷ 4 =

b. 17 ÷ 6 =

c. 20 ÷ 8 =

d. 23 ÷ 6 =

e. 43 ÷ 7 =

f. 57 ÷ 9 =

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3. a. The mathstronaut has 17 cards. He sorts them into piles and has 2 remaining. How many could be in each pile?

b. The mathstronaut has between 20 and 30 stickers. He sorts them into 4 piles and has 3 remaining. How many stickers might he have?

c. Two mathstronauts have 50 apples altogether. One puts them into bags of 5 and has 4 left over. The other puts them into bags of 6 and has 2 remaining. How many apples might they have each?

d. A teacher has 22 students in the class. She puts them into groups and there are 2 children remaining. How many groups may she have split the class into, with how many in each group?

To solve division problems with a remainder - Answers

Question No.	Question	Answer
1	Make stick squares or triangles to help solve the following. The first one has been done for you. a. $16 \div 3 =$ b. $18 \div 4 =$ c. $22 \div 3 =$ d. $9 \div 4 =$ e. $21 \div 4 =$ f. $10 \div 3 =$	a. 5 remainder 1 b. 4 remainder 2 c. 7 remainder 1 d. 2 remainder 1 e. 5 remainder 1 f. 3 remainder 1
2	Use a number line and repeated subtraction to solve: a. $34 \div 4 =$ b. $17 \div 6 =$ c. $20 \div 8 =$ d. $23 \div 6 =$ e. $43 \div 7 =$ f. $57 \div 9 =$	a. 8 remainder 2 b. 2 remainder 5 c. 2 remainder 4 d. 3 remainder 5 e. 6 remainder 1 f. 6 remainder 3
3	a. How many could be in each pile? b. How many stickers might he have? c. How many apples might they have each? d. How many groups may she have split the class into, with how many in each group?	a. He could have 5 piles of 3, or 3 piles of 5 b. He could have 23 or 27 stickers c. 24 and 26 d. 4 groups of 5, or 5 groups of 4