Simplifying ratio and sharing in ratios

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Name:

1) Fully simplify the following ratios:

a) 4 : 12

b) 20 : 15

c) 6 : 18

d) 25 : 10

e) 18 : 30

f) 10 : 14

g) 42 : 7

h) 54 : 36

i) 52 : 72

j) 120 : 88

k) 10 : 12 : 8

l) 9 : 21 : 45

2) Share the following amounts into the given ratios:

a) £25 in the ratio 1 : 4

b) £40 in the ratio 3 : 7

c) £64 in the ratio 3 : 5

d) £44 in the ratio 3 : 1

e) £72 in the ratio 7 : 5

f) £250 in the ratio 3 : 7

g) £96 in the ratio 5 : 3

h) £120 in the ratio 1 : 2 : 3

3) Find the value of the money that was shared out:

a) Some money was shared in the ratio 4:5.
   The first person received £16.

b) Some money was shared in the ratio 2:3.
   The first person received £12.

c) Some money was shared in the ratio 7:4.
   The first person received £28.

d) Some money was shared in the ratio 1:2:3.
   The second person received £32.

e) Some money was shared in the ratio 5:8.
   The second person receives £3,000
   more than the other.

f) Some money was shared in the ratio 10:2.
   The first person receives £4,000
   more than the other.

Exam question:

Andy, Bill and Charlie take a test.
The ratio of Andy's score to Bill's score is 5 : 8
Andy scores 9 fewer marks than Bill.
Andy scores 4 more marks than Charlie.
Work out Charlie's score.