Fill in the blanks.
01. two-fifth of 70 is ________

Encircle the correct option.
01. Increase Rs 30 in the ratio of 6:4
A) 15  B) 45  C) 18  D) 20
02. Simplest form of 24:42 is:
A) 4:7  B) 2:5  C) 1:7  D) 9:8
03. On a map, a distance of 40 km is represented by a 2cm line. What is the scale of the map?
A) 1:2000 000  B) 1: 200 000  C) 1: 20 000  D) 1:2000
04. The simplified form of the ratio 6:27:45 is
A) 2:9:15  B) 2:5:15  C) 5:3:15  D) 15:9:2
05) Ratio of 12 kg to 2000g is:
A) 600:1  B) 1:6  C) 60:1  D) 6:1
06) In what ratio must 49 be decreased to become 21?
A) 3/7  B) 7/3  C) 3  D) 7
07) If 4 books cost $28 then 20 such books can be bought with
A) $50  B) $20  C) $70  D) $140

Questions
Q no 01) Work out the cost of the following when four cups of soup cost $8
I. Five cups
II. Eight cups
Q no 02) Simplify these ratios
I. 2:10:12  II. 32:8:64  III. 12:16  IV. 1 hour 20 minutes: 4 hours
Q no 03) A school has 20 teachers and 480 students
I. What is the teacher: student ratio?
II. Convert ratio in its simplest form.
Q no 04) A map has a scale 1cm to 5m.
I. What is the actual length which is 3.5 cm on the map?
II. What length will represent 250m on map?
Q no 05) Divide 250 in the ratio 3:2
Q no 06) A rectangular metal sheet is 10.5 m long and 1.5 m wide. Calculate
I. The ratio of its length to its width in simplest form.
II. Ratio of its length to its perimeter.
III. If the cost of 1 square meter of metal sheet is $30, find the total cost of the sheet.
Q no 07) A man can build a room in 10 days. How long will it take if 8 men build the same room?
Q no 08) Divide 405 m in the ratio 7:7:10
Q no 10) A picture measuring 15cm by 75cm is enlarged in the ratio 8:5. Find the new dimension.
Q no 11) A tap can fill a bath in 12 minutes and another tap can do so in 24 minutes. How long will they take running together?
Q no 12) A man earns $576 in a 6-day week. What is his pay for 4 days?
Q no 13) Four men can renovate a house in 12 days. How long would it take seven men?
Q no 14) 5 kg of beef cost Rs 1450. Calculate the cost of 8 kg of beef.
Q no 15) 480 km in the ratio of 7:5
Q no 16) Find p: q if 3p = 5q
Q no 17) Divide the following quantities in the stated ratios.
I. Rs 605 in the ratio of 4:1  II. 4.5 m in the ratio of 5:1  III. 216 in the ratio of 1:4:10
Q no 18) State whether each of the following is an example of direct proportion, inverse proportion or neither.
I. Cost of one stamp. Cost of a number of the same stamp __________
II. Age of a child. Size of the child’s shoes. ________________
III. The length of a video tape and the number of the half-hour programs that can be recorded on it _________
Q no 20) A school has 25 teachers and 750 students. Write the teacher: student ratio in its simplest form.
Q no 21) A bag of sweets has yellow, green, red and purple sweets in the following ratio:
Yellow : green : red : purple = 2:3:5:1. There are 15 red sweets.
I. How many sweets are there altogether?  II. How many sweets are yellow?
Q no 22) 3 painters take 4 days to paint the outside of the house.
I. How long would it take 6 painters to paint the same house at the same rate?
II. How many painters would be needed to paint three similar houses in 4 days?