

5. The prescription requests two capsules to be taken every 4 hours for 1 week. Therefore, you will need to dispense $(2 \times 6 \times 7) = 84$ capsules.
Answer: d (84)
6. The prescription is for 56 days' supply. For the first 14 days, the patient is to take 1 capsule three times a day. This is $14 \times 3 = 42$.
For the remaining time ($56 - 14 = 42$ days), the patient is to take 1 capsule four times a day. This is $42 \times 4 = 168$.
Therefore, you need to dispense $168 + 42 = 210$.
Answer: d (210)
7. **Answer:** c (To mix)
8. **Answer:** d (Size 3)
9. **Answer:** c (Dusting powders must be labelled 'Not to be taken'.) They should be labelled 'For external use only'.
10. $10 \text{ mg} \times 10 = 100 \text{ mg}$, which is below the accepted minimum weighable quantity of a Class II balance, which is 150 mg. All the other quantities, when multiplied by 10, are greater than 150 mg.
Answer: a (10 mg)
11. A mix for 10 powders will contain $3 \times 10 = 30 \text{ mg}$ Ephedrine BP.
This will be contained in a 200 mg portion of mix X. Therefore, the proportions of ingredients in mix X are:

Ephedrine BP	30 mg
Lactose BP	170 mg

Multiplying both by 5 will produce weighable quantities:

Ephedrine BP	$30 \text{ mg} \times 5 =$	150 mg
Lactose BP	$170 \text{ mg} \times 5 =$	850 mg

Answer: b (Ephedrine BP 150 mg Lactose BP 850 mg)
12. **Answer:** d (Verapamil BP 20 mg Lactose BP 180 mg)
13. Bendroflumethiazide 2.5 mg powders
 1. The product is used to treat oedema and hypertension (*British National Formulary* 51st edn, p 72).
 2. This is an unofficial preparation, therefore the formula will need to be checked to ensure that it is safe and suitable for use. Bendroflumethiazide is used at a dose of 5–10 mg in the morning daily or on alternate days; maintenance 5–10 mg 1–3 times weekly for oedema and 2.5 mg in the morning for hypertension (higher doses rarely necessary) (*British National Formulary* 51st edn, p 72). Lactose BP is a suitable diluent unless the patient is lactose-intolerant. Therefore the preparation is safe and suitable for the intended purpose.
 3. Prepare 5 bendroflumethiazide 2.5 mg powders.

Calculations

	One powder	10 powders
Bendroflumethiazide BP	2.5 mg	25 mg
Lactose BP	to 200 mg	to 2000 mg

We need to make a concentrated powder where every 200 mg of this concentrate (mix X) contains 25 mg of Bendroflumethiazide BP (mix X = 25 mg/200 mg).