

# Engineering Drawing Questions and Answers – Types of Scales – 1

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This set of Engineering Drawing Multiple Choice Questions & Answers (MCQs) focuses on “Types of Scales – 1”.

1. What is the type of scale in which the representative fraction is 1:1?
- a) Enlarged scale
  - b) Reduced scale
  - c) Full size scale
  - d) Graphical scale

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Answer: c

Explanation: A full size scale is a type of scale in which the length of the drawing and the actual length of the object is of the ratio 1:1. Hence by definition, its representative fraction is 1:1. In full size scale, the drawing is drawn with the actual measurements.

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2. Which of the following representative fraction depicts an enlarging scale?

- a) 1:0.2
- b) 1:2
- c) 1:3
- d) 1:1

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Answer: a

Explanation: Enlarging scale means that the drawing is drawn with the bigger dimensions in comparison to the actual dimensions of the object. A representative fraction of 1:0.2 means 5:1, i.e. the drawing is five times bigger than the actual object. Hence the scale is enlarging scale.

3. Which of the following scales is a reducing scale?

- a) 3:2
- b) 1:3
- c) 1:1
- d) 1:0.4

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Answer: b

Explanation: The representative fraction 1:3 indicates that the dimension of the drawing is one-third of the actual object. Since the drawing is smaller than the actual object, this type of scale is called a reducing scale.

4. Which of the following is not an enlarging scale?

- a) 2:1
- b) 4:3
- c) 3:5
- d) 6:1

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representative fraction will be greater than unity. For reducing scale the representative fraction is less than unity.

5. Which of the following scales is neither an enlarging nor a reducing scale?

- a) 3:2
- b) 1:4
- c) 1:0.5
- d) 1:1

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Answer: d

Explanation: A scale which is neither enlarging nor reducing is called as full size scale. The representative fraction of a full size scale is 1:1. In full size scale, the drawing is made just as the actual dimensions of the object.

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6. A scale which is numerically represented on the drawing sheet is called as \_\_\_\_\_

- a) Graphical scale
- b) Engineer's scale
- c) Reducing scale
- d) Full size scale

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Answer: b

Explanation: An engineer's scale is the representation of the scale used in drawing on drawing sheet numerically. For example, if the length of the drawing is 5 cm and the actual length is 10m, then it is numerically represented as 5cm = 10m.

7. Which of the following scale is used in survey maps?

- a) Engineer's scale
- b) Diagonal scale
- c) Graphical scale
- d) Vernier scale

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Answer: c

Explanation: Graphical scales are used in survey maps. The graphical scale is drawn on the drawing. When the drawing ages, the engineer's scale shrinks and may not give accurate results. Hence graphical scale is used as the drawing shrinks, the scale will also shrink.

8. What is the formula for calculating the length of the scale?

- a) Minimum length to be measured  $\times$  R.F.
- b) Minimum length to be measured  $\div$  R.F.
- c) Maximum length to be measured  $\div$  R.F.
- d) Maximum length to be measured  $\times$  R.F.

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Answer: d

Explanation: The length of the scale is calculated by using the following formula,  
Length of the scale = R.F.  $\times$  Maximum length to be measured.

9. Units of the measurements must be shown in the scale drawn.

- a) True
- b) False

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Answer: a

Explanation: Units of the scale must be clearly indicated on the drawing. This helps in clearing any misunderstanding concerning the different units used in the scale. The representative fraction should be mentioned in the drawing as well.

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