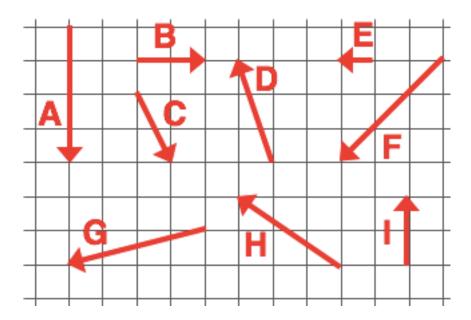
# **Component Addition of Vectors**

The following diagram is used in all questions:



Question Groups 1-3 all use the following table:

Vector	X	у
Resultant		

# Question Group 1

#### **Question 1**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

D + G = ???

#### **Question 2**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

D + G = ???

#### **Question 3**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

D + G = ???

### **Question Group 2**

#### Question 4

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

H + F = ???

#### Question 5

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

H + F = ???

#### **Question 6**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

H + F = ???

# **Question Group 3**

#### Question 7

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

A + C = ???

#### **Question 8**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

A + C = ???

#### Question 9

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

A + C = ???

## Question Groups 4-6 all use the following table:

Vector	X	у
Resultant		

## **Question Group 4**

#### Question 10

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

$$G + D + F = ???$$

#### **Question 11**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

$$G + D + F = ???$$

#### Question 12

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

$$G + D + F = ???$$

# **Question Group 5**

#### **Question 13**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

$$H + F + I = ???$$

#### **Question 14**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

H + F + I = ???

#### Question 15

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

H + F + I = ???

# Question Group 6

#### **Question 16**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

B + C + A = ???

#### **Question 17**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

B + C + A = ???

#### **Question 18**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

B + C + A = ???

## Question Groups 7-9 all use the following table:

Vector	X	у
Resultant		

# Question Group 7 Question 19

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

$$A + H + C + D = ???$$

#### **Question 20**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge

$$A + H + C + D = ???$$

#### **Question 21**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge

$$A + H + C + D = ???$$

# **Question Group 8**

#### Question 22

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge

H + B + G + I = ???

#### **Question 23**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge H + B + G + I = ???

#### **Question 24**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge H + B + G + I = ???

## **Question Group 9**

#### **Question 25**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 5 km along its edge F + D + C + B = ???

#### **Question 26**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 10 km along its edge F + D + C + B = ???

#### **Question 27**

Use the diagram and scale to determine the magnitude and direction of the resultant for the vector addition equation. Begin with the table.

Scale: 1 square = 20 km along its edge F + D + C + B = ???

The following graphic appears on all questions:

