



## Average

**A. Find the average of each of the following.**

(1) 14, 16 and 30

(2) 24 kg, 38 kg and 34 kg

(3) 12, 29, 31 and 40

(4) \$1.70, \$3.65 and \$3.80

(5) 4.52 m, 5 m, 8.96 m and 24.8 m

**B. Do these sums. Show all your working clearly.**

- (1) The total weight of 4 men and 2 women is 348 kg. What is their average weight?
- (2) Ruth took 11 min 20 s to solve 5 problems. On the average, how long did she take to solve 1 problem?
- (3) A salesman used 15 l 300 ml of petrol in 4 days. What was the average amount of petrol he used per day?

- (4) The table shows the test marks for 4 subjects scored by Betty. Find the average score.

English	70
Chinese	85
Mathematics	68
Science	79

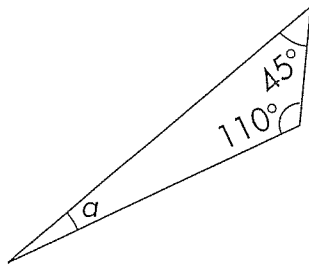
- (5) Mother cooked a total amount of 3 kg 530 g of rice from Monday to Wednesday. She cooked 4 kg 570 g from Thursday to Saturday. On the average, how much rice did she cook per day?

- (6) The sum of 4 numbers is 1230. The average of 3 of them is 293. What is the fourth number?

[ 06-06-05-K5B

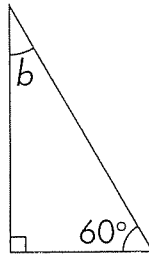
A. The following figures are not drawn to scale. Find the unknown angles.

(1)



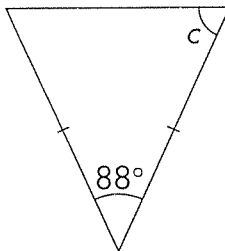
$\angle a =$

(2)



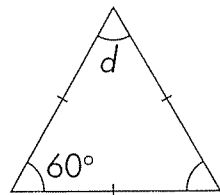
$\angle b =$

(3)



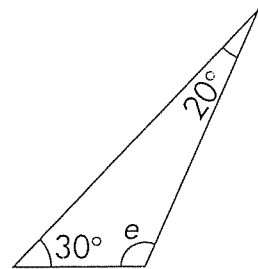
$\angle c =$

(4)



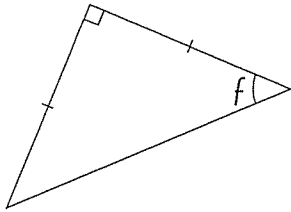
$\angle d =$

(5)



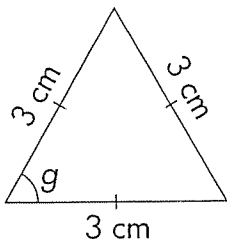
$\angle e =$

(6)



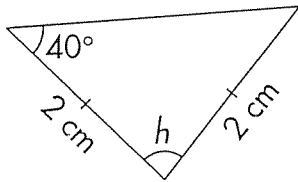
$$\angle f =$$

(7)



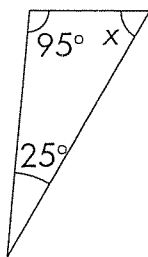
$$\angle g =$$

(8)



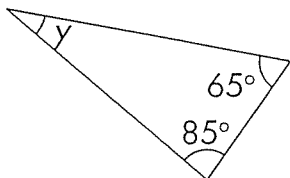
$$\angle h =$$

(9)



$$\angle x =$$

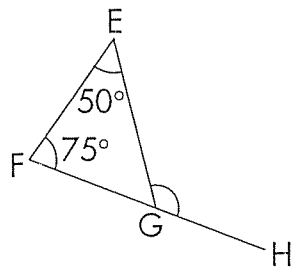
(10)



$$\angle y =$$

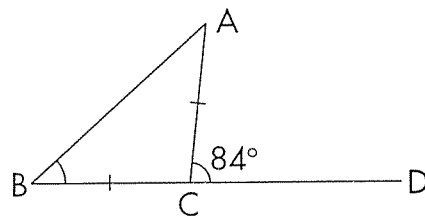
B. The following figures are not drawn to scale. Find the unknown angles.

(1)



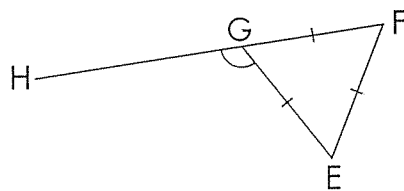
Find  $\angle EGH$ .

(2)



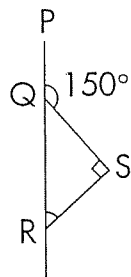
Find  $\angle ABC$ .

(3)



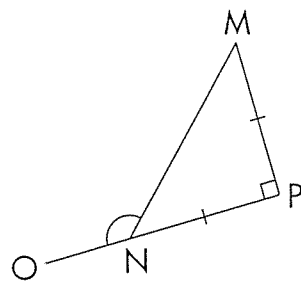
Find  $\angle HGE$ .

(4)



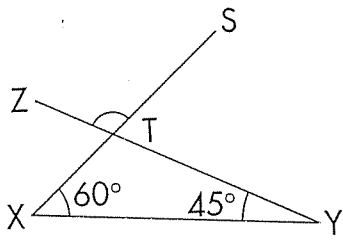
Find  $\angle QRS$ .

(5)



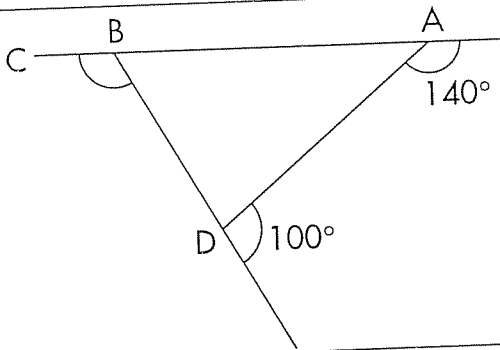
Find  $\angle MNO$ .

(6)



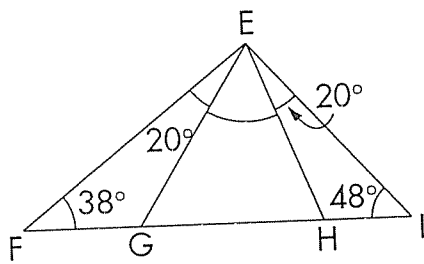
Find  $\angle STZ$ .

(7)



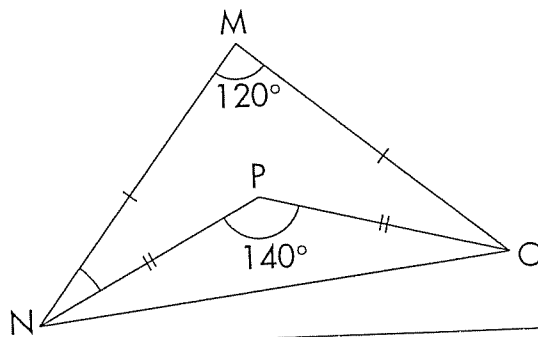
Find  $\angle DBC$ .

(8)



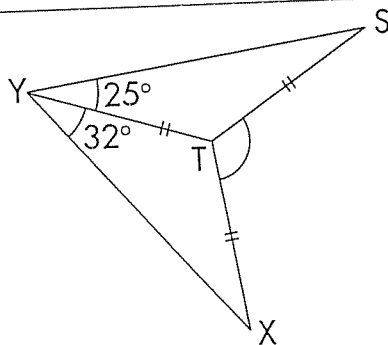
Find  $\angle GEH$ .

(9)



Find  $\angle MNP$ .

(10)

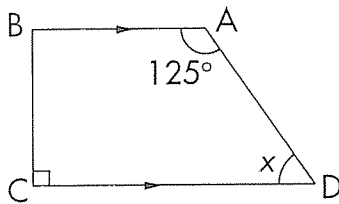


Find  $\angle STX$ .

[06-06-05-K5A]

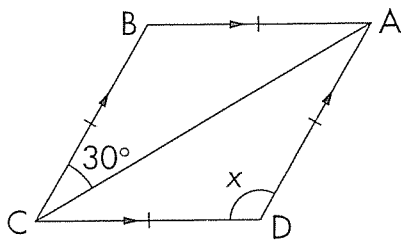
The following figures are not drawn to scale. Find the unknown marked angles.

(1)



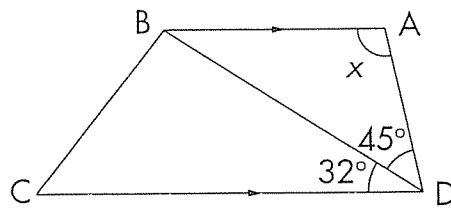
ABCD is a trapezium. Find  $\angle x$ .

(2)



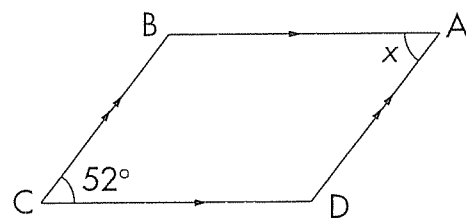
ABCD is a rhombus. Find  $\angle x$ .

(3)



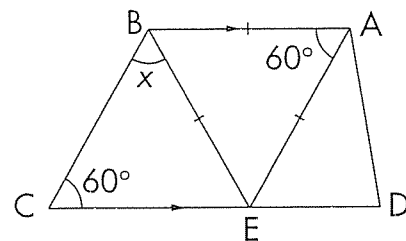
ABCD is a trapezium. Find  $\angle x$ .

(4)



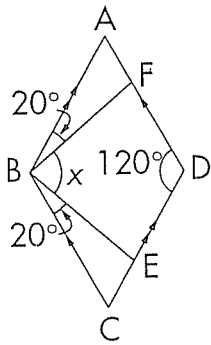
ABCD is a parallelogram. Find  $\angle x$ .

(5)



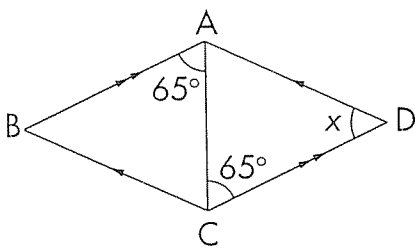
ABCD is a trapezium. Find  $\angle x$ .

(6)



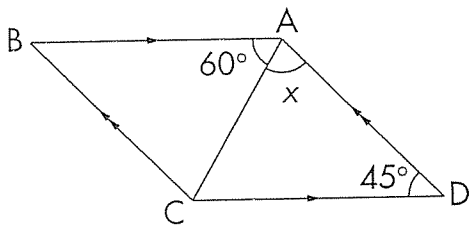
ABCD is a rhombus. Find  $\angle x$ .

(7)



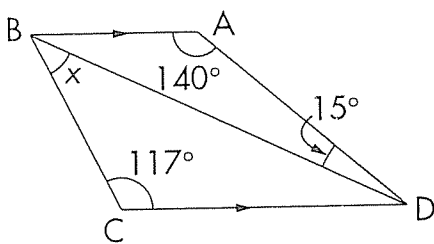
ABCD is a rhombus. Find  $\angle x$ .

(8)



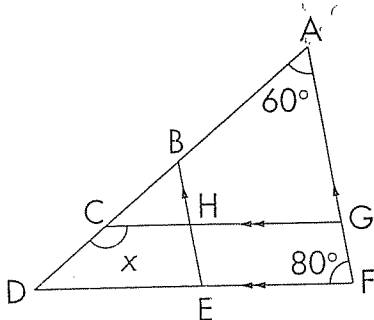
ABCD is a parallelogram. Find  $\angle x$ .

(9)



ABCD is a trapezium. Find  $\angle x$ .

(10)



ABEF and CDFG are trapeziums. Find  $\angle x$ .

- E (1) 0.12 (2) 0.02 (3) 0.27 (4) 0.41  
 (5) 0.42 (6) 0.58 (7) 0.6 (8) 0.75  
 (9) 0.88 (10) 0.93

- F (1)  $\frac{7}{20}$  (2)  $\frac{1}{10}$  (3)  $\frac{6}{25}$  (4)  $\frac{12}{25}$   
 (5)  $\frac{9}{100}$  (6)  $\frac{53}{100}$  (7)  $\frac{67}{100}$  (8)  $\frac{1}{100}$   
 (9)  $\frac{19}{25}$  (10)  $\frac{81}{100}$

### Exercise 36

- A (1) 20% (2) 40% (3) 5% (4) 28%  
 (5) 52% (6) 58% (7) 60% (8) 55%

- B (1) 20% (2) 40% (3) 50% (4) 75%  
 (5) 60% (6) 25% (7) 18% (8) 8%  
 (9) 16% (10) 49% (11) 20% (12) 15%  
 (13) 57% (14) 61% (15) 95% (16) 37%

### Exercise 37

- (1)  $\frac{9}{20}$  (2) 25% (3) 90% (4) 75%  
 (5) 35% (6) 20%  
 (7) (a) 35% (b) 65%  
 (8) (a)  $\frac{4}{5}$  (b)  $\frac{1}{5}$   
 (9) (a) 70% (b) 30%  
 (10) (a) 60% (b) 40%

### Exercise 38

- A (1) 20 cm (2) \$212 (3) 102 g (4) 36 kg  
 (5) 375 m (6) 390 ml
- B (1) 231 (2) 66 (3) 32 (4) \$1854  
 (5) \$390 (6) \$10 400 (7) \$72  
 (8) \$310.50 (9) 918 (10) \$1160

### Exercise 39

- A (1) 20 (2) 32 kg (3) 28  
 (4) \$3.05 (5) 10.82 m
- B (1) 58 kg (2) 2 min 16 s  
 (3) 3 l 825 ml (4) 75.5  
 (5) 1 kg 350 g (6) 351

### Exercise 40

- A (1) 15 (2) 1350  
 (3) (a) 6 (b) 18 (c) 9
- B (1) 48 (2) 9 (3) 12 (4) \$3.60  
 (5) \$452 (6) 128.75 l (7) 4  
 (8) \$195 (9) 4 km

### Exercise 41

- A (1) Friday (2) Tuesday, Thursday  
 (3) 37 (4)  $\frac{5}{6}$  (5) 17 : 21
- B (1) cakes (2) hot dogs (3) 10  
 (4) 4 (5) 7 : 5
- C (1) 1350 (2) 150 (3) 175  
 (4) April, May (5) 275
- D (1) December (2) July, December  
 (3) April (4) 10 cm (5) 1 : 3
- E (1) 2 p.m. (2) 30 km (3) 1 h  
 (4) 30 km (5) 15 km/h

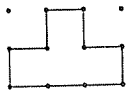
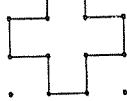
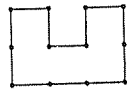
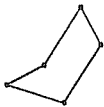
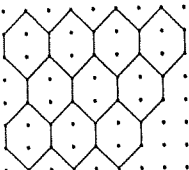
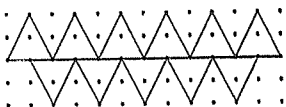
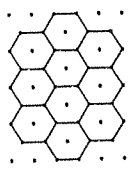
### Exercise 42

- A (1) 25° (2) 30° (3) 46° (4) 60°  
 (5) 130° (6) 45° (7) 60° (8) 100°  
 (9) 60° (10) 30°
- B (1) 125° (2) 42° (3) 120° (4) 60°  
 (5) 135° (6) 75° (7) 120° (8) 54°  
 (9) 10° (10) 114°

### Exercise 43

- (1) 55° (2) 120° (3) 103° (4) 52°  
 (5) 60° (6) 80° (7) 50° (8) 75°  
 (9) 38° (10) 140°

### Exercise 44

- A (1)  (2) 
- (3)  (4) 
- B (1)  (2) 
- (3)  (4) 