

Q5 (Problem Solving) Day 146 Name: _____

1. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **5 minutes** of the race **Dan has completed 1km** of the park run. Grace has run $\frac{3}{4}$ of the distance that Dan has completed and Erin has ran $\frac{2}{3}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **5 minutes**? Write your answer in the space below.

_____ m

2. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **5 minutes** of the race **Dan has completed 1km** of the park run. Grace has run $\frac{1}{2}$ of the distance that Dan has completed and Erin has ran $\frac{3}{5}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **5 minutes**? Write your answer in the space below.

_____ m

3. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **10 minutes** of the race **Dan has completed 2km** of the park run. Grace has run $\frac{3}{4}$ of the distance that Dan has completed and Erin has ran $\frac{1}{3}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **10 minutes**? Write your answer in the space below.

_____ m

4. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **10 minutes** of the race **Dan has completed 2.5km** of the park run. Grace has run $\frac{4}{5}$ of the distance that Dan has completed and Erin has ran $\frac{1}{2}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **10 minutes**? Write your answer in the space below.

_____ m

5. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **15 minutes** of the race **Dan has completed 2.5km** of the park run. Grace has run $\frac{1}{2}$ of the distance that Dan has completed and Erin has ran $\frac{4}{5}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **15 minutes**? Write your answer in the space below.

_____ m

6. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **15 minutes** of the race **Dan has completed 3km** of the park run. Grace has run $\frac{2}{3}$ of the distance that Dan has completed and Erin has ran $\frac{3}{5}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **15 minutes**? Write your answer in the space below.

_____ m

7. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **15 minutes** of the race **Dan has completed 3km** of the park run. Grace has run $\frac{5}{6}$ of the distance that Dan has completed and Erin has ran $\frac{4}{5}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance and Erin's distance after 15 minutes**? Write your answer in the space below.

_____ m

8. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **20 minutes** of the race **Dan has completed 3.5km** of the park run. Grace has run $\frac{4}{7}$ of the distance that Dan has completed and Erin has ran $\frac{1}{2}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance and Erin's distance after 20 minutes**? Write your answer in the space below.

_____ m

9. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **20 minutes** of the race **Dan has completed 3.5km** of the park run. Grace has run $\frac{4}{5}$ of the distance that Dan has completed and Erin has ran $\frac{3}{4}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **20 minutes**? Write your answer in the space below.

_____ m

10. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **20 minutes** of the race **Dan has completed 4km** of the park run. Grace has run $\frac{9}{10}$ of the distance that Dan has completed and Erin has ran $\frac{3}{4}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance** and **Erin's distance** after **20 minutes**? Write your answer in the space below.

_____ m

11. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **25 minutes** of the race **Dan has completed 4.5km** of the park run. Grace has run $\frac{6}{9}$ of the distance that Dan has completed and Erin has ran $\frac{5}{6}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance and Erin's distance after 25 minutes**? Write your answer in the space below.

_____ m

12. Grace, Dan and Erin are running in the **5km** park run. They all set off at the same time. After **25 minutes** of the race **Dan has completed 4.9km** of the park run. Grace has run $\frac{5}{7}$ of the distance that Dan has completed and Erin has ran $\frac{1}{2}$ the distance that Grace has completed. What is the **difference in metres** between **Dan's distance and Erin's distance after 25 minutes**? Write your answer in the space below.

_____ m

Answers

- 1. 500**
- 2. 700**
- 3. 1500**
- 4. 1500**
- 5. 1500**
- 6. 1800**
- 7. 1000**
- 8. 2500**
- 9. 1400**
- 10. 1300**
- 11. 2000**
- 12. 3150**