BROAD HORIZON
TUITION

11+ Basics Tuition

Year 4

Week 7

ANSWERS

Mental Maths

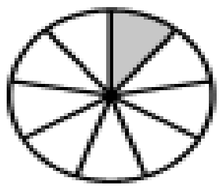
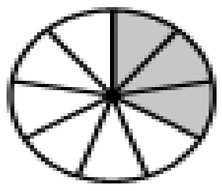
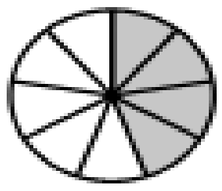
1. Halve 64 = 32
2. Double 39 = 78
3. 72 + 18 = 90
4. Double 24 = 48
5. Halve 86 = 43
6. Halve 248 = 124
7. Double 315 = 630
8. Halve 1840 = 920
9. 35 × 4 = 140
10. Double 68 = 136
11. Halve 84 = 42
12. Double 256 = 512
13. Halve 460 = 230
14. Double 34 = 68
15. Double 45 = 90
16. 65 × 4 = 260
17. 80 × 7 = 560
18. 9 × 40 = 360
19. 560 ÷ 7 = 80
20. 18 × 4 = 72

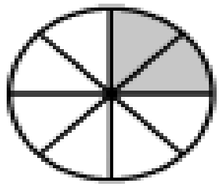
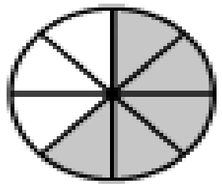
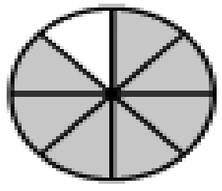
Paper 13	Answer
1. Count on 6 from 149. What number do you arrive at?	***155***
2. Count on 9 from 181. What number do you arrive at?	***190***
3. Count back 7 from 132. What number do you arrive at?	***125***
4. Count back 8 from 190. What number do you arrive at?	***182***
5. Count on 40 in tens from 29. What number do you arrive at?	***69***
6. Count on 40 in tens from 190. What number do you arrive at?	***230***
7. Count back 40 in tens from 87. What number do you arrive at?	***47***
8. Count back 40 in tens from 220. What number do you arrive at?	***180***
9. Is 76 an odd or even number?	***even***
10. What is the next odd number after 299?	***301***

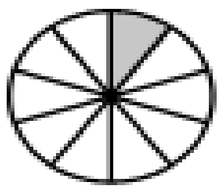
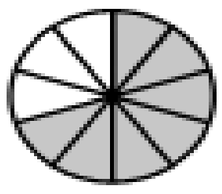
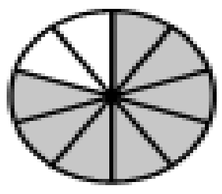
Paper 14	Answer
1. Count on 7 from 169. What number do you arrive at?	***176***
2. Count on 9 from 191. What number do you arrive at?	***200***
3. Count back 7 from 152. What number do you arrive at?	***145***
4. Count back 8 from 160. What number do you arrive at?	***152***
5. Count on 40 in tens from 19. What number do you arrive at?	***59***
6. Count on 40 in tens from 280. What number do you arrive at?	***320***
7. Count back 40 in tens from 76. What number do you arrive at?	***36***
8. Count back 40 in tens from 310. What number do you arrive at?	***270***
9. Is 61 an odd or even number?	***odd***
10. What is the next odd number after 499?	***501***

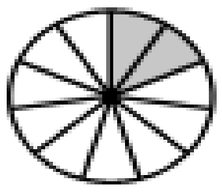
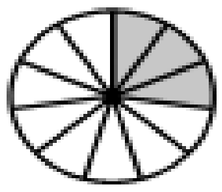
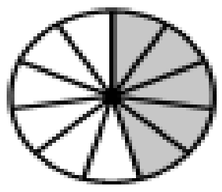
Maths

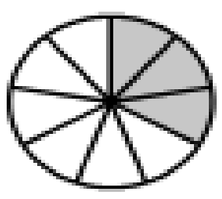
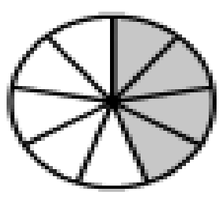
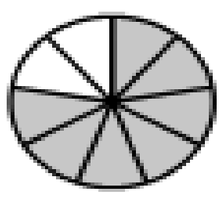
Adding Fractions with the same Denominator

1)  $\frac{1}{9}$ +  $\frac{3}{9}$ =  $\frac{4}{9}$

2)  $\frac{2}{8}$ +  $\frac{5}{8}$ =  $\frac{7}{8}$

3)  $\frac{1}{10}$ +  $\frac{7}{10}$ =  $\frac{8}{10}$

4)  $\frac{2}{11}$ +  $\frac{3}{11}$ =  $\frac{5}{11}$

5)  $\frac{3}{9}$ +  $\frac{4}{9}$ =  $\frac{7}{9}$

Adding Fractions with different Denominators

1) $\frac{2}{4} + \frac{5}{10} = \frac{10}{20} + \frac{10}{20} = \frac{20}{20} = 1$

2) $\frac{9}{10} + \frac{2}{3} = \frac{27}{30} + \frac{20}{30} = \frac{47}{30} = 1\frac{17}{30}$

3) $\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

4) $\frac{3}{10} + \frac{3}{4} = \frac{6}{20} + \frac{15}{20} = \frac{21}{20} = 1\frac{1}{20}$

5) $\frac{1}{3} + \frac{2}{10} = \frac{10}{30} + \frac{6}{30} = \frac{16}{30} = \frac{8}{15}$

6) $\frac{2}{3} + \frac{1}{2} = \frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}$

7) $\frac{3}{10} + \frac{1}{2} = \frac{3}{10} + \frac{5}{10} = \frac{8}{10} = \frac{4}{5}$

8) $\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

9) $\frac{7}{10} + \frac{2}{4} = \frac{14}{20} + \frac{10}{20} = \frac{24}{20} = \frac{6}{5} = 1\frac{1}{5}$

10) $\frac{2}{3} + \frac{1}{2} = \frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}$

11) $\frac{4}{5} + \frac{3}{4} = \frac{16}{20} + \frac{15}{20} = \frac{31}{20} = 1\frac{11}{20}$

12) $\frac{7}{10} + \frac{1}{4} = \frac{14}{20} + \frac{5}{20} = \frac{19}{20}$

1) $\frac{2}{10} + \frac{3}{5} = \frac{2}{10} + \frac{6}{10} = \frac{8}{10} = \frac{4}{5}$

2) $\frac{1}{4} + \frac{7}{10} = \frac{5}{20} + \frac{14}{20} = \frac{19}{20}$

3) $\frac{1}{2} + \frac{2}{4} = \frac{2}{4} + \frac{2}{4} = \frac{4}{4} = 1$

4) $\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

5) $\frac{1}{5} + \frac{5}{10} = \frac{2}{10} + \frac{5}{10} = \frac{7}{10}$

6) $\frac{1}{2} + \frac{3}{5} = \frac{5}{10} + \frac{6}{10} = \frac{11}{10} = 1\frac{1}{10}$

7) $\frac{4}{5} + \frac{1}{3} = \frac{12}{15} + \frac{5}{15} = \frac{17}{15} = 1\frac{2}{15}$

8) $\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$

9) $\frac{1}{3} + \frac{4}{10} = \frac{10}{30} + \frac{12}{30} = \frac{22}{30} = \frac{11}{15}$

10) $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

11) $\frac{2}{5} + \frac{1}{2} = \frac{4}{10} + \frac{5}{10} = \frac{9}{10}$

12) $\frac{1}{4} + \frac{7}{10} = \frac{5}{20} + \frac{14}{20} = \frac{19}{20}$

Subtracting Fractions with the same Denominator

1) $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

2) $\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$

3) $\frac{6}{12} - \frac{3}{12} = \frac{3}{12}$

4) $\frac{6}{12} - \frac{5}{12} = \frac{1}{12}$

5) $\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$

6) $\frac{4}{9} - \frac{2}{9} = \frac{2}{9}$

7) $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$

8) $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$

9) $\frac{6}{11} - \frac{4}{11} = \frac{2}{11}$

10) $\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$

Subtracting Fractions with different Denominators

1) $\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

2) $\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

3) $\frac{1}{3} - \frac{3}{10} = \frac{10}{30} - \frac{9}{30} = \frac{1}{30}$

4) $\frac{1}{3} - \frac{1}{5} = \frac{5}{15} - \frac{3}{15} = \frac{2}{15}$

5) $\frac{2}{3} - \frac{3}{5} = \frac{10}{15} - \frac{9}{15} = \frac{1}{15}$

6) $\frac{1}{2} - \frac{1}{5} = \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$

7) $\frac{4}{5} - \frac{5}{10} = \frac{8}{10} - \frac{5}{10} = \frac{3}{10}$

8) $\frac{3}{4} - \frac{1}{2} = \frac{3}{4} - \frac{2}{4} = \frac{1}{4}$

9) $\frac{3}{4} - \frac{1}{5} = \frac{15}{20} - \frac{4}{20} = \frac{11}{20}$

10) $\frac{8}{10} - \frac{1}{4} = \frac{16}{20} - \frac{5}{20} = \frac{11}{20}$

11) $\frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$

12) $\frac{9}{10} - \frac{2}{3} = \frac{27}{30} - \frac{20}{30} = \frac{7}{30}$

Subtracting Fractions with different denominators

1) $\frac{2}{3} - \frac{1}{2} = \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$

2) $\frac{1}{2} - \frac{1}{10} = \frac{5}{10} - \frac{1}{10} = \frac{4}{10} = \frac{2}{5}$

3) $\frac{2}{3} - \frac{3}{10} = \frac{20}{30} - \frac{9}{30} = \frac{11}{30}$

4) $\frac{8}{10} - \frac{3}{4} = \frac{16}{20} - \frac{15}{20} = \frac{1}{20}$

5) $\frac{1}{2} - \frac{3}{10} = \frac{5}{10} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$

6) $\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$

7) $\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$

8) $\frac{1}{2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$

9) $\frac{6}{10} - \frac{1}{4} = \frac{12}{20} - \frac{5}{20} = \frac{7}{20}$

10) $\frac{6}{10} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$

11) $\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

12) $\frac{1}{2} - \frac{2}{10} = \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$

Pages 55-59 — Assessment Test 6

1) **D** — Father William is described as "old" and "fat", with "very white" hair — 'overweight' means the same as "fat".
2) **B** — Father William says that he stands on his head "again and again".
3) **D** — Father William says that when he was young he "feared it might injure the brain".
4) **D** — Father William says that he is sure that he doesn't have a brain so he won't be hurt by standing on his head.
5) **A** — The young man is surprised Father William can do somersaults because he is "uncommonly fat".
6) **B** — The young man is asking why Father William did a somersault at the door.
7) **C** — "replied" means the same as 'answered'.
8) **A** — "In my youth" is closest in meaning to 'in my childhood'. 'Youth' and 'childhood' both mean 'in your younger years'.
9) **notice** — 'Sign' and 'notice' both mean 'a board with a message'.
10) **listen** — 'Hear' and 'listen' both mean 'perceive a sound'.
11) **beam** — 'Ray' and 'beam' both mean 'a shaft of light'.
12) **forest** — 'Wood' and 'forest' both mean 'a large group of trees'.
13) **sprint** — 'Dash' and 'sprint' both mean 'run'.
14) **create** — 'Make' and 'create' both mean 'produce'.

30) a**like** — 'Different' means 'not similar', whereas 'alike' means 'similar'.
31) **least** — 'Most' means 'greatest amount', whereas 'least' means 'smallest amount'.
32) aw**ful** — 'Great' means 'very good', whereas 'awful' means 'very bad'.
33) **work** — 'Play' means 'have fun', whereas 'work' means 'labour'.
34) ra**in**y — 'Sunny' means 'lots of sunlight', whereas 'rainy' means 'lots of rain'.
35) **whole** — 'Part' means 'a piece of something', whereas 'whole' means 'the entirety of something'.

1. explorer / equipment
2. children, garden
3. river
4. e.g. happiness
5. decision
6. paris, london (both capitalised)
7. My friend Ali lives near Birmingham.
8. Eid
9. e.g. Queen Mary School
10. River Thames
11. He said he was late.
12. its
13. They forgot their coats.
14. he / she / they
15. We
16. cheered
17. climbed
18. will finish
19. jump
20. think / believe