Smarten up in Maths (age 6-7)
Intelligent Australia Productions

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Dedicated to the students of Beaconsfield Primary School
Intelligent Australia Productions is committed to raising standards in Literacy and Numeracy in Australian schools.

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Teachers Notes

About
This book has been written to complement core Mathematics texts for Australian students aged 6 and 7. In some States this equates to year one and in others to year two.

In many classrooms there is an age range of twelve months or more; this may mean there are students in the class who are barely 6 years old while others are well past their 7th birthday.

The pages that follow endeavour to address this anomaly by providing activities that cater to ages across such a range.

What this book offers
* exercises in the most important concepts from the Mathematics syllabus
* worksheets with easy-to-follow instructions and space for working-out
* solutions at the back of the book, for ready reference
* activities that are equally useful as in-class lessons or home assignments

Benefits of Use
Teachers who use these worksheets with their students will be pleased with the results. There is plenty of scope for consolidation of previously-learned concepts and ample opportunities for accomplished maths students to demonstrate their skills.
**Basic Facts**

+1, +2, +3, +4, +5

How well do you know your basic number facts?

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Adding two single-digit numbers.
Sum less than 10.

1) \[5 + 3 = \underline{}\]
2) \[4 + 4 = \underline{}\]
3) \[6 + 2 = \underline{}\]
4) \[2 + 3 = \underline{}\]
5) \[7 + 2 = \underline{}\]
6) \[8 + 1 = \underline{}\]
7) \[3 + 3 = \underline{}\]
8) \[1 + 6 = \underline{}\]
9) \[7 + 0 = \underline{}\]
10) \[0 + 9 = \underline{}\]
11) \[7 + 1 = \underline{}\]
12) \[2 + 4 = \underline{}\]
13) \[6 + 3 = \underline{}\]
14) \[4 + 3 = \underline{}\]
15) \[5 + 4 = \underline{}\]
16) \[9 + 0 = \underline{}\]
17) \[4 + 2 = \underline{}\]
18) \[1 + 5 = \underline{}\]
19) \[3 + 2 = \underline{}\]
20) \[8 + 0 = \underline{}\]
Adding two single-digit numbers.
Sum to 10 or more.

1)  7 + 3 = 10
2)  5 + 6 = 11
3)  6 + 9 = 15
4)  3 + 9 = 12
5)  8 + 6 = 14

6)  4 + 8 = 12
7)  9 + 0 = 9
8)  7 + 6 = 13
9)  5 + 9 = 14
10) 6 + 4 = 10

11) 3 + 7 = 10
12) 8 + 9 = 17
13) 4 + 6 = 10
14) 9 + 9 = 18
15) 7 + 7 = 14

16) 5 + 5 = 10
17) 6 + 8 = 14
18) 3 + 8 = 11
19) 8 + 2 = 10
20) 4 + 9 = 13
How fast can you subtract?

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Subtraction involving two single-digit numbers.

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Subtracting a single-digit number from a double-digit number.

1) 12 - 2 = ___
2) 14 - 3 = ___
3) 15 - 4 = ___
4) 11 - 5 = ___
5) 17 - 6 = ___

6) 13 - 7 = ___
7) 19 - 3 = ___
8) 16 - 6 = ___
9) 10 - 6 = ___
10) 18 - 9 = ___

11) 11 - 4 = ___
12) 17 - 7 = ___
13) 13 - 6 = ___
14) 19 - 4 = ___
15) 16 - 5 = ___

16) 10 - 7 = ___
17) 18 - 8 = ___
18) 12 - 3 = ___
19) 14 - 4 = ___
20) 15 - 6 = ___

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Solve the maths problems in the clouds. Then colour all the clouds with ‘7’ answers yellow. Colour all the clouds with ‘4’ answers light green. Colour all the clouds with ‘5’ answers pink.

7-3=  
4+2=  
5+2=  
9-7=  
10-8=  
8-5=  
7-0=  
6-2=  
9-4=  
2+5=  
10-4=  
4+0=  
7-1=  
1+7=  
8-6=  
9-0=  
3+4=  
8-4=  
3+2=  
8-3=  
4-0=  
3-3=  
7-2=  
7-7=  
8-0=  
9-1=  
9-3=  
1+4=  
0+5=  
10-6=  

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Solve the maths problems in the clouds. Then colour all the clouds with ‘18’ answers orange. Colour all the clouds with ‘15’ answers light blue. Colour all the clouds with ‘13’ answers grey.
Look at this example
How many owls are there?

2 owls × 2 = 4 owls

Now do these (write in all the numbers)
1. How many fish are there?

2 fish × 2 = fish

2. How many kittens are there?

3 kittens × 2 = kittens

3. How many puppies are there?

6 puppies × 2 = puppies

Try this one
4. Put in the missing pictures and numbers.

7 bunnies × 2 = 14 bunnies
Look at this example
How many hens are there?

2 x 5 = 10 hens

Now do these (write in all the numbers)
1. How many foxes are there?

= foxes

2. How many penguins are there?

= penguins

Try this one
3. Put in the missing pictures and numbers.

= 25 frogs
Look at this example

How many dolphins are there altogether? 20
How many groups are there? 2
How many dolphins are there in each group? 10
We write $20 \div 10 = 2$

Try these...

1. 

How many elephants are there altogether? ..................
How many groups are there? ..................
How many elephants are there in each group? ..................
We write ..........................................................

2. 

How many zebras are there altogether? .................
How many groups are there? .................
How many zebras are there in each group? .................
We write ..........................................................
**Look at this example**

How many apples are there altogether? 15
How many groups are there? 3
How many apples are there in each group? 5
We write $15 ÷ 5 = 3$

*Try these…*

1. How many carrots are there altogether? ..................
How many groups are there? ..................
How many carrots are there in each group? ..................
We write ....................................................

2. How many turnips are there altogether? ..................
How many groups are there? ..................
How many turnips are there in each group? ..................
We write ....................................................

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Shapes may have straight lines or curved lines.

There are two circles, two squares, two rectangles and two triangles. Label each shape.

What is the main difference between a triangle and a rectangle?

What is the main difference between a square and a rectangle?

What is the main difference between a circle and the other shapes here?
Write in the missing numbers.

1) 1 2 3 6 9 11 14 17 19

2) 20 19 18 15 13 12 8 7 3

3) 2 4 6 10 14 18

4) 18 16 12 8 6 2

5) 0 5 10 15 25 40

6) 50 45 35 20 10
Write in the missing numbers.

1) 0 3 6 15 24

2) 30 27 24 6

3) 0 4 8 20 32

4) 40 36 32 20 8

5) 0 10 20 50 80

6) 100 90 80 50 20

I like to get a sticker for doing my maths well.

Sticker!? Give me a big juicy bone any day!
1) Write the times shown on the clocks.

If you finish your work early see if you can answer the questions below.

2) See if you can draw in the clocks’ hands.

How many minutes in an hour?
How many minutes in half an hour?
How many minutes in a quarter of an hour?
1) Write the times shown on the clocks.

- If you finish your work early see if you can answer the questions below.

2) See if you can draw in the clocks’ hands.

- How many seconds in a minute?
- How many seconds in half a minute?
- How many seconds in a quarter of a minute?
Look at the dogs. The 5th dog is lying down.

Fill in the blanks below.

1) 1st, 2nd, _____, 4th, 5th, _____

2) 2nd, 3rd, _____, 5th, 6th, _____

3) 6th, 7th, _____, 9th, _____, 11th

4) 3rd, 4th, _____, 6th, 7th, _____

5) 2nd, 3rd, 4th, _____, 6th, _____

6) 4th, 5th, 6th, _____, 8th, _____

7) 5th, 6th, _____, 8th, _____, 10th

8) 6th, 7th, _____, 9th, 10th, _____

9) 7th, _____, 9th, 10th, _____, 12th

10) 8th, 9th, _____, 11th, 12th, _____

11) _____, 10th, 11th, _____, 13th

12) 10th, 11th, _____, _____, 14th

13) 12th, _____, 14th, 15th, _____

14) _____, 14th, 15th, _____, 17th

15) _____, 16th, 17th, _____, 19th

16) _____, 17th, 18th, 19th, _____
Here are the names of the months to help you: January February March April May June July August September October November December

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<th>Autumn ←</th>
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Can you think of 3 or 4 summer words?

Can you think of 3 or 4 autumn words?

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<th>Winter →</th>
<th>Spring ←</th>
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<tr>
<td>Jun</td>
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<td>Jul</td>
<td>O</td>
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<tr>
<td>Au</td>
<td>N</td>
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</tbody>
</table>

Can you think of 3 or 4 winter words?

Can you think of 3 or 4 spring words?
The first day of the week is Sunday.
There are 5 days in a school week.
Weekends have two days.

1. **See if you can write in the correct numbers:**
   - There are ____ days in a week.
   - There are ____ weeks in a fortnight.
   - There are about ____ weeks in a month.

2. **Write in the correct numbers:**
   - 9 days equals 1 week and ____ days.
   - 11 days equals 1 week and ____ days.
   - There are ____ days in a fortnight.
   - 3 fortnights equals ____ weeks.

3. **Can you un-jumble the names of the days?**

   - **udanSy**
   - **oyndMa**
   - **udeaysT**
   - **yeseddWan**
   - **Tardyhus**
   - **yarFid**
   - **aStudray**

4. **What is something you do on this day?** (write small)

   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
   - …………………………………………………………………………………………………………………………………………………
There are 12 months in a year. Every year begins on January 1st and ends on December 31st.

Below on the left are the months, in order, and the number of days each has. You will see that some months have more days than others.
February usually has 28 days but every 4th year (leap year) it has 29 days.

Here is a little poem to help you remember how many days are in each month:

30 days has September,
April, June and November.
All the rest have 31, excepting February alone, which has 28 days clear
And 29 in each leap year.

Who has a birthday in my class this month?

<table>
<thead>
<tr>
<th>Month</th>
<th>Days</th>
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</thead>
<tbody>
<tr>
<td>January</td>
<td>31 days</td>
</tr>
<tr>
<td>February</td>
<td>28(29) days</td>
</tr>
<tr>
<td>March</td>
<td>31 days</td>
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<tr>
<td>April</td>
<td>30 days</td>
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<td>May</td>
<td>31 days</td>
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<td>June</td>
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<td>August</td>
<td>31 days</td>
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<td>September</td>
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<td>October</td>
<td>31 days</td>
</tr>
<tr>
<td>November</td>
<td>30 days</td>
</tr>
<tr>
<td>December</td>
<td>31 days</td>
</tr>
</tbody>
</table>
How long is each line?
Measure to the nearest centimetre and write your answer underneath.
1) Tom had $5 and Ben had $7.
   a) How much did Tom and Ben have altogether?
   b) Tom spent $3 and Ben spent $5. How much did they spend altogether?
   c) How much did Tom have left?
   d) How much did Ben have left?

2) One day a spider met a fly.
   a) How many legs did they have altogether?
   b) How many legs and eyes did they have altogether?
   c) How many more legs did the spider have than letters in ‘spider’?
   d) How many more legs did the fly have than letters in ‘fly’?

3) Susie is 8 and Bonnie is 5.
   a) What are their ages added together?
   b) How many years older than Bonnie is Susie?
   c) How old will Bonnie be in another 4 years?
   d) How old was Susie three years ago?

4) Down near the pond were three ducks and two bees.
   a) How many birds and insects were there altogether?
   b) How many legs did the ducks have together?
   c) How many legs did the bees have together?
   d) How many more bees’ legs were there than ducks’ legs?

5) Alice had 7 stickers, Jill had 3 and Lilly had 5.
   a) How many stickers did the girls have altogether?
   b) How many more stickers than Jill did Alice have?
   c) How many more stickers than Lilly did Alice have?
   d) How many more stickers than Jill did Lilly have?

6) Two cows were standing near two birds.
   a) How many legs did the cows have together?
   b) How many legs did the birds have together?
   c) How many legs did the cows and birds have altogether?
   d) How many more cows’ legs were there than birds’ legs.

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1) Three girls each had 5 stickers.
How many stickers did they have altogether?

2) There were three 10c coins on the table.
How much money is this altogether?

3) Four boys each had 3 toy cars.
How many toy cars did they have altogether?

4) There were five 5c coins in the jar.
How much money is this altogether?

5) Two horses were grazing in a field.
How many legs did they have altogether?

6) Four 5-armed starfish were on the beach.
How many arms did they have altogether?

7) A farmer had 2 tractors and each tractor could carry 5 bales of hay.
How many bales of hay could be carried by both tractors at one time?

8) Three buses were parked at the side of the road.
How many wheels did they have altogether?

9) The teacher sketched five triangles.
How many sides did the triangles have altogether?

10) There were 6 monkeys at the zoo.
How many arms did the monkeys have altogether?

11) There were 5 penguins walking on the ice. (each penguin had two flippers).
How many flippers did the 5 penguins have altogether?

12) Molly drew 4 squares on her page.
How many sides did the squares have altogether?
1) Mary had one 20c coin, two 10c coins and a 5c coin. How much money did Mary have altogether?

2) Dad had two $5 notes and three $10 notes. How much money did Dad have altogether?

3) Tommy had $12. He bought a puzzle book for $3. How much money did Tommy have left?

4) Anne had 2 piggy banks. Each piggy bank had $2.50 inside. How much money did the two piggy banks have in them altogether?

5) In our family there are five children. Mum and dad gave us $10 to share evenly. How much money did we each get?

6) Mr Smith’s fare on the bus was $3. He paid with a $10 note. How much change did Mr Smith get?
1) Bobby started to get ready for school at 7:30. It took him 15 minutes to get ready. 
At what time was Tommy ready for school?

2) The postman began delivering the mail at 10am and it took him 5 hours. 
At what time did the postman finish delivering the mail?

3) Our kitchen clock says it is 7:30 but it is 5 minutes fast. 
What is the real time?

4) William took 18 seconds to run 100m. Craig was 3 seconds slower than William. 
How long did it take Craig to run the 100m?

5) Mr Brown went to England for 2 weeks. While there he worked every day except for two. 
For how many days did Mr Brown work in England?

6) Over the past year I was unwell for 3 months. 
For how many months was I feeling well?
Whole Numbers Increasing & Decreasing

Write the next number

1) 0, 2, 4, 6, 8, 10, 12, __
2) 1, 3, 5, 7, 9, 11, 13, __
3) 14, 16, 18, 20, 22, __
4) 15, 17, 19, 21, 23, __
5) 0, 3, 6, 9, 12, 15, 18, __
6) 1, 4, 7, 10, 13, 16, __
7) 2, 5, 8, 11, 14, 17, __
8) 0, 4, 8, 12, 16, 20, __
9) 0, 5, 10, 15, 20, 25, __
10) 30, 40, 50, 60, 70, 80, __
11) 12, 11, 10, 9, 8, 7, __
12) 16, 14, 12, 10, 8, 6, __
13) 15, 13, 11, 9, 7, 5, __
14) 70, 60, 50, 40, 30, 20, __
15) 30, 25, 20, 15, 10, __
16) 18, 15, 12, 9, 6, 3, __
17) 19, 16, 13, 10, 7, 4, __
18) 23, 21, 19, 17, 15, __
19) 24, 20, 16, 12, 8, 4, __
20) 26, 22, 18, 14, 10, 6, __
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<td>70, 60, 50, ____, 30, ____</td>
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<td>12, 11, ____, 9, 8, ____</td>
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<td>16, 14, 12, ____, 8, ____</td>
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<td>26, 22, 18, 14, ____, ____</td>
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<td>20</td>
<td>24, 20, 16, ____, 8, ____, 0</td>
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Write, in red, the odd numbers below the tower and write, in green, the even numbers below the pyramids. Draw a line through each cloud as you write its number down.
Odd and Even

Which is which?
(work up from the bottom)

Write the missing odd numbers in blue

Write the missing even numbers in red

Challenge
Odd or Even?

23 is an ......................... number.

28 is an ......................... number.

35 is an ......................... number.

46 is an ......................... number.
## Solutions

### page 5 Addition  Basic Facts

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### page 6 Addition  Adding two single-digit numbers. Sum less than 10.

1) 8 2) 8 3) 8 4) 5 5) 9 6) 9 7) 9 8) 7 9) 7 10) 9

11) 8 12) 6 13) 9 14) 7 15) 9 16) 9 17) 6 18) 6 19) 5 20) 8

### page 7 Addition  Adding two single-digit numbers. Sum to 10 or more.

1) 10 2) 11 3) 15 4) 12 5) 14 6) 12 7) 9 8) 13 9) 14 10) 10

11) 10 12) 17 13) 10 14) 18 15) 14 16) 10 17) 14 18) 11 19) 10 20) 13

### page 8 Subtraction  Basic Facts

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Subtraction involving two single-digit numbers

```
1) 3  2) 5  3) 3  4) 6  5) 0  6) 2  7) 5  8) 0  9) 5  10) 3
  11) 0  12) 4  13) 1  14) 3  15) 2  16) 4  17) 0  18) 7  19) 1  20) 5
```

Subtracting a single-digit number from a double-digit number

```
1) 10  2) 11  3) 11  4) 6  5) 11  6) 6  7) 16  8) 10  9) 4  10) 9
   11) 7  12) 10  13) 7  14) 15  15) 11  16) 3  17) 10  18) 9  19) 10  20) 9
```

Basic Facts

```
1) 3 x 2 = 6 fish  2) 4 x 2 = 8 kittens  3) 5 x 2 = 10 puppies  4) 6 x 2 = 12 bunnies
```

Multiplication Practice x 5

```
1) 3 x 5 = 15 foxes  2) 4 x 5 = 20 penguins  3) 5 x 5 = 25 frogs
```

Introduction to Division

```
1) 20 ÷ 4 = 5  2) 30 ÷ 3 = 10
```

Introduction to Division

```
1) 12 ÷ 3 = 4  2) 30 ÷ 5 = 6
```

2-D shapes we need to know

Labelling shapes: teacher to check
A triangle has three sides, a rectangle has four.
A square has four sides of equal length, a rectangle has two pairs of sides each of different lengths.
A circle is bounded by a curved line whereas the other shapes are bounded by straight lines.

Missing numbers, up and down counting by 1, 2 and 5

```
1) 3:00 or 3 o’clock  10:30 or half past ten
```

Missing numbers, up and down counting by 3, 4 and 10

```
1) 8.15 or a quarter past eight  12:45 or a quarter to one
```

Write the time, draw the hands

```
1) 3:00 or 3 o’clock  10:30 or half past ten
```

Write the time, draw the hands

```
1) 8.15 or a quarter past eight  12:45 or a quarter to one
**page 22** **Ordinal Numbers** Locating and Naming Places from 1st to 20th
teacher to check

**page 23** **The Seasons** Write the months’ names out in full.
teacher to check

**page 24** **Days of the week** Weekdays and weekends
teacher to check

**page 25** **Months of the Year** How many days in each month?
teacher to check

**page 26** **Measurement** Measuring lines to nearest centimetre
A) 8 cm  B) 6 cm  C) 9 cm  D) 3 cm  E) 9 cm  F) 2 cm
G) 9 cm  H) 5 cm  I) 6 cm  J) 2 cm  K) 10 m  L) 7 cm

**page 27** **Problem Solving** Addition & Subtraction
1. a) $12  b) $8  c) $2  d) $2  2. a) 14  b) 18  c) 2  d) 3  3. a) 13  b) 3  c) 9  d) 5
4. a) 5  b) 6  c) 12  d) 6  5. a) 15  b) 4  c) 2  d) 2

**page 28** **Problem Solving** Multiplication: 2, 3, 4, 5, 10
1. 15  2. 30c  3. 12  4. 25c  5. 8  6. 20  7. 10  8. 12  9. 15 10. 12 11. 10 12. 16

**page 29** **Problem Solving** Money
1. 45c  2. $40  3. $9  4. $5  5. $2  6. $7

**page 30** **Problem Solving** Time
1. 7:45  2. 3pm  3. 7:25  4. 21 seconds  5. 12  6. 9 months

**page 31** **Number Patterns** Write the next number
11. 6 12. 4 13. 3 14. 10 15. 5 16. 0 17. 1 18. 13 19. 0 20. 2

**page 32** **Number Patterns** Write the missing numbers
1. 18, 24  2. 19, 25  3. 6, 14  4. 7, 13  5. 11, 17  6. 12, 24  7. 6, 18  8. 7, 16 9. 40, 70
10. 10, 25 11. 9, 3 12. 40, 20 13. 10, 7 14. 10, 6 15. 10, 1 16. 19, 13 17. 20, 10
18. 12, 6 19. 10, 6 20. 12, 4

**page 33** **Odd and Even** Which is which?
teacher to check

**page 34** **Odd and Even** Which is which?
teacher to check