



Welwyn St.
Mary's

School and Home Learning Grid

Week 14 - 23rd June, 2020

Year 6

Dear parents and children. We hope you had a lovely weekend and enjoyed the little break from home learning. School continues to be a positive place and the children have adapted very well to their new routines. We are really looking forward to seeing most of you back in your Year 6 classrooms from next week! We are really missing all the children, who remain shielding at home, and hope that you are enjoying your home learning. We have seen some wonderful work going on.


Day	I can...	Activities and links
Monday		INSET DAY - school closed
Tuesday Mental Arithmetic	I can calculate using a range of arithmetic strategies.	Starter: Day 1 fluency starter https://www.twinkl.co.uk/resource/t2-m-17400-sats-survival-year-6-maths-revision-morning-starter-weekly-powerpoint-pack-2 Main teaching focus: Arithmetic Test Year 6 - Test 3 Try re-registering, if you can't access Twinkl. Alternatively, ask an adult to create a range of sums for you. https://www.twinkl.co.uk/resource/t2-m-1192-ks2-arithmetic-practice-tests-year-6-bumper-pack The test takes up to 30 minutes. Mark your own work. Go over any areas of difficulty or any misconceptions.
Wednesday Fractions	I can convert improper fractions and mixed numbers. I can add and subtract fractions.	Starter: Day 2 fluency starter https://www.twinkl.co.uk/resource/t2-m-17400-sats-survival-year-6-maths-revision-morning-starter-weekly-powerpoint-pack-2 Warm-up: converting mixed numbers to improper fractions and vice versa - go over the rules and then practise with a few examples. This needs revision before moving onto the main teaching. https://corbettmaths.com/2013/02/15/improper-fractions-to-mixed-numbers/ Main teaching focus: Adding and subtracting fractions with different denominators https://corbettmathsprimary.com/2018/07/16/adding-fractions-2-video/ Target your Maths page 44 (see below) - choose your own level. Extn: page 45. Mark your own work
Thursday Fractions	I can convert improper fractions and mixed numbers. I can multiply fractions.	Starter: Day 3 fluency starter https://www.twinkl.co.uk/resource/t2-m-17400-sats-survival-year-6-maths-revision-morning-starter-weekly-powerpoint-pack-2 Warm-up: As yesterday - converting mixed numbers to improper fractions and vice versa - go over the rules and then practise with a few example (repeat from yesterday to consolidate) https://corbettmaths.com/2013/02/15/mixed-numbers-to-improper-fractions/ Main teaching focus: multiplying fractions https://corbettmathsprimary.com/2018/07/18/multiplying-fractions-video/ Target your Maths page 46 (see below)- choose your own level. Mark your own work
Friday	Consolidation	School closed to prepare for the next phase of reopening. If you want to, spend more time working on any of the above.

Literacy	<p>Reading: Find time to read daily and continue to share your reading with an adult - use a home book or other reading materials e.g. a recipe, magazines, National Geographic for kids' website, BBC Bitesize reading materials, author websites and so on.</p> <p>Spellings: <i>see below</i> <i>"There is more treasure in books than in all the pirate's loot on Treasure Island." - Walt Disney</i></p>	
	Monday	INSET DAY - enjoy the rest! Get reading!
	Tuesday	<p>I know the different persuasive techniques that can be used to persuade a reader.</p> <p>I can come up with an idea for a gadget and share this with the rest of the class.</p> <p>Early Morning work: Watch Newsround https://www.bbc.co.uk/newsround/news/watch_newsround Handwriting (cursive). Use the spelling words below. Grammar starter: 10 Minute Grammar Test - Test 2 - see below. Main lesson: Revise the different persuasive devices discussed last week. https://www.twinkl.co.uk/resource/au-t2-e-3536-years-3-6-persuasive-devices-powerpoint and reread the text from last week. https://www.talk4writing.com/wp-content/uploads/2020/05/Y6-Gadgets.pdf . Turn to page 10. Read through their gadget ideas. What punctuation can you see? Look at the use of a hyphen, and colon, to introduce a list. If time, do the sheet below (about hyphens). Now the fun part.... on a piece of scrap paper brainstorm as many ideas as you can for a new gadget - for a spy, for school, or perhaps for your home. Discuss. What's your favourite one? On a separate piece of paper draw your favourite gadget and make sure you have annotated it (added notes) - covering all the headings on page 11. Present your idea to the rest of the class. Get feedback/improvements. If you're at home, go and show an adult your work.</p>
	Wednesday	<p>I know what modal verbs are and why writers use emotive language.</p> <p>I can organise my ideas into a plan to help me structure my writing.</p> <p>Early Morning work: Watch Newsround https://www.bbc.co.uk/newsround/news/watch_newsround Do a Year 5/6 spelling wordsearch. https://www.twinkl.co.uk/resource/t2-e-1317-year-5-6-spelling-list-wordsearch-pack or alternatively, create your own – using the spelling words below. Grammar starter: 10 Minute Grammar Test - Test 3. Revise modal verbs and emotive language. https://www.twinkl.co.uk/resource/t3-e-434-using-modal-verbs-powerpoint (powerpoint). https://www.twinkl.co.uk/resource/t4-e-161-new-introduction-to-emotive-language-lesson-pack Main lesson: Look back at the model text and how it was boxed-up (see page 7). Now box-up your own ideas, activity 8, page 12 (A3). The more detailed your plan - the easier it will be to write tomorrow. Share your plan with others and ask for suggestions about how to improve it. If time, revisit the persuasive writing word mat from last week https://www.twinkl.co.uk/resource/t-l-2407-persuasive-writing-word-mat</p>
	Thursday	<p>I know what rhetorical questions and imperative verbs are.</p> <p>I can write a persuasive advert, editing and improving my work as I write.</p> <p>Early Morning work: Watch Newsround https://www.bbc.co.uk/newsround/news/watch_newsround Handwrite a poem of your choice. Spelling Test Grammar starter: Briefly revise rhetorical questions and imperative verbs. Before you start writing - think about the importance of re-reading and constantly editing and improving your work. Do activity 11 - edit the paragraph of text on page 14. Discuss with an adult. Main lesson: Write your persuasive advert, edit and improve your work. STOP and re-read after every couple of sentences. Ask yourself the questions at the top of page 14. Ask someone else to check it when you're happy with it. Share your work with others - read it aloud, using expression. If you're at home, send us a copy to read to the rest of the class.</p>

	Friday	I can turn my advert into a radio advert.	School closed to prepare for the next phase of reopening. If you want to, have a go at page 15 - turning your writing into a radio advert. Good Luck!
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Spellings	<i>By the end of year 6, children are expected to be able to spell most of the words from the year 3/4 and year 5/6 spelling lists. Therefore, we thought that the best thing to do, in the time that we have left, is to focus on these key words. Your secondary school will be expecting you to be familiar with them. We know that you have already started learning them, but we need to check that they are embedded. In school, there will be a test <u>every Friday</u>. New words (for the next week) will be given out on a Friday. If you are at home, ask an adult to test you.</i>		
	LEVEL 1 - Year 3 and 4 Words		LEVEL 2 -Year 5 and 6 Words
	Choose your level: 1 or 2	<ol style="list-style-type: none"> 1. arrive 2. build 3. continue 4. extreme 5. increase 6. often 7. perhaps 8. promise 	<ol style="list-style-type: none"> 9. reign 10. sentence 11. straight 12. though 13. various 14. women 15. weight
Ongoing homework task: Write a humorous sentence for each of your words. Use a dictionary if you are not sure of the meaning.			

Afternoon Work

French	<p>Bonjour les enfants</p> <p>I hope you are all well and continuing to practise some French every week. This week we are going to learn about breakfast in France - le petit dejeuner . We will find out what French people eat at breakfast time. Firstly have a look at some of the videos and information on this website</p> <p>https://agreenmouse.com/french-listening-practice-le-petit-dejeuner-food/?fbclid=IwAR3CORY20JA0WEyuvm3zPIZhQJptTzLX4XbgFizrPo1QU0LZvg7Z41Gb-28</p> <p>Remember to listen and repeat as you are watching the video.</p> <p>Design a menu for a French breakfast using the vocabulary below:</p> <p>Un croissant - a croissant Du pain – some bread Un jus d’orange – an orange juice La confiture – the jam un chocolat chaud – a hot chocolate</p> <p>Finally listen to and sing along to this song about breakfast by Alain le lait.</p> <p>https://www.youtube.com/watch?v=d5U4kDDBCVA</p>	
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Family challenge project for the week beginning 22.06.20

'Where I live'

Who would you like to find out? You choose.

Science

Have a look at this book on Oxford Owl. The main character tried to make houses out of different materials but they didn't work. Can you design and make a house, thinking about which materials would be strong, waterproof and warm? Can you then make it?

https://www.oxfordowl.co.uk/api/digital_books/1114.html

Look on the Mill Green website. Can you find out how the mill works and what it was used for?

<https://www.millgreenmuseum.co.uk/article/7313/Home>

Welwyn is built along the River Mimram which is host to many species of animal. Its crystal clear waters running over chalk lands has been described as the "Jewel in the Hertfordshire countryside". Take some time to do a nature watch around the area and record what you can see. If you can take photographs and make them into a scrap book or a poster. Don't forget to look into the river itself to see which fish live there! <https://www.wildlifewatch.org.uk/spotting-sheets>

History and Geography

Could you go for a nature walk with a piece of selotape or a stick? On your walk, collect items and stick them to the tape or stick to show the journey you went on. What kind of things did you find? Can you make a map of where you walked and see if you can remember where you found each item?

Look at this book and compare the similarities and differences between homes in the past and your home.

<https://www.oxfordowl.co.uk/api/interactives/29292.html>

Go on the school website and look at the History of our school. <https://welwynst-marys.herts.sch.uk/our-school/history-of-welwyn-st-marys/> Can you make a timeline to show the changes?

[On Purple Mash, have a look at topics, Geography, Buildings and homes. You could look at 'changing homes' or 'old and new homes'.](#)

Have a look at St Albans museum <https://www.stalbansmuseums.org.uk/learn/verulamium-museum-virtual-tour>

You could watch a short silent clip of the opening of Welwyn in 1926.

<https://www.britishpathe.com/video/VLVA9Q6OS2YNU7HS17350W8NS0N0J-OPENING-OF-WELWYN-GARDEN-CITY/query/Open>

[Can you look at the different transport links available near you? Is there a train? Where does it go? Can you create a map to show the furthest place you can get to by train?](#)

[Could you look at the rivers near where you live?](#) The River Mimram runs through the village of Welwyn but where does it begin and where does it end? Trace its journey from spring to source. Use an atlas to help find Welwyn village then trace the Mimram's journey. Does it join any other rivers? Which major river does it join before flowing out to sea?

[Can you look at the Welwyn Hatfield Coat of Arms? How has it changed over time? What are the key features of it? Can you design your own?](#)

[Can you research the history of De Havilland? <https://www.dehavillandmuseum.co.uk/about-us/de-havilland-history/>](#)

Following the Roman invasion, Welwyn was settled by the Romans. The Roman road through the village was laid out, leading to the establishment of the settlement around the road and the ford. Many Roman artefacts have been found in and around the village, including the remains of several Roman villas close by including the Welwyn Roman Baths. Research the Welwyn Roman Baths. What can you find out about them? Who were the Romans and what were they like? Find out here

<https://www.bbc.co.uk/bitesize/topics/zwmpfg8>

Find out where the word Welwyn comes from and what it means. <https://en.wikipedia.org/wiki/Welwyn>

When you next take a walk around the village and surrounding areas how many willow trees can you spot?

Welwyn lay on a late-Celtic highway running in the direction of the summer solstice and was settled by the Catuvellauni tribe. Find out what it was like to be a Celt in the iron age. What was your home like? What did you eat and how did you dress? Watch this BBC teach introduction to the Celts https://www.youtube.com/watch?v=j6rCMT0ss_k visit <http://primaryhomeworkhelp.co.uk/celts/index.html> to discover more.

	<p>Look at how Welwyn has developed over time. Which changes have there been? Which buildings have stayed the same? https://www.hertsmemories.org.uk/content/herts-history/towns-and-villages/welwyn/welwyn-scenes-from-the-village look out for the plaque on Ivy cottage home of Anne Van Gogh sister to Vincent Van Gogh.</p> <p>Have a look at the road safety and travel resources attached below. Could you make a road safety poster? You could write about the importance of wearing a helmet or a seatbelt. You could encourage people to use more active ways of travelling such as a scooter, walking or a bike.</p>
Art and DT	<p>On Purple Mash, go on topics, Geography, buildings and homes, paint projects. You could choose a home to decorate as your own. You could draw the people who live in your house. You could design a house using different materials.</p> <p>Look at these Welwyn Hatfield themed pieces of art. Can you have a go at recreating one? https://artuk.org/discover/artworks/view_as/grid/search/collections:welwyn-hatfield-museum-service#undefined</p> <p>Welwyn village has many historic buildings. Why not sketch your favourite - perhaps The Church or Church House, The White Hart or The Wellington? You could make a model of your favourite building out of 'junk'.</p> <p>Use junk materials to make a model of your own home.</p> <p>Make a painting of the River Mimram, you could stand by the bridge on the high street or from the view of Singlars marsh. Take a photograph first to capture all the detail, colours and perspective. Use the photograph to help create your painting.</p> <p>Sketch some local flora and fauna - sit quietly in a safe place and see what you can spot. Sketch or paint some of the many tree species in and around Welwyn. How many can you name? collect leaves and make leaf prints of the different species and save in a scrap book or make a poster.</p>
RE	<p>Look on the St Mary's Church website. Can you find any information about the building for example, how has it changed? https://www.welwyn.org.uk/our-buildings</p> <p>Could you design a Welwyn stain glass window? What would make it significant?</p>

	<p>The story of Alban is a remarkable one. It not only takes us back to the beginning of the Christian faith in Britain and to a time when religious freedom was forbidden, but it is also an astonishing account of standing up for what you believe in. Find out about Saint Alban who was one of the first recorded British Christian martyrs. Visit the Abbey Cathedral website to learn more</p> <p>https://www.stalbanscathedral.org/the-story-of-alban</p>
<p>Music</p>	<p>Listen to Bedrich Smetana's descriptive piece, Vltava, a symphonic poem which describes the journey of the Moldau river. It begins at the source in the mountains of the Bohemian Forest, through the Czech countryside, to the city of Prague. and finally ends with two triumphant chords. Smetana, a Czech composer, wrote this piece of music when he was completely deaf.</p> <p>https://www.youtube.com/watch?v=l6kqu2mk-Kw</p> <p>Listen out for the different instruments at different stages of the river's journey.</p>
<p>Other ideas</p>	<p>Explore these books about homes on Oxford Owl</p> <p>https://www.oxfordowl.co.uk/api/interactives/23320.html</p> <p>https://www.oxfordowl.co.uk/api/interactives/23317.html</p> <p>Read about a little girl from Welwyn who had a baby elephant as pet. If you could have any pet, what would it be and why?</p> <p>https://www.britishpathe.com/video/elephant-in-snow-aka-baby-elephant-as-pet</p> <p>Play 'pooh sticks' in the river Mimram use willow sticks if you can find them. Here is how to play</p> <p>https://www.nationaltrust.org.uk/features/no-19-play-pooh-sticks</p> <p>Learn your own address and postcode, can you find the street or road that you live on in an atlas? What other roads are around you? Zoom in on your locality in google maps, what can you see around where you live?</p> <p>Why not get hands on at home and create your own archaeological dig to look for historical treasures? Visit this BBC site to find out how to do it. http://downloads.bbc.co.uk/history/handsonhistory/dig_family.pdf</p> <p>Read this story. The main character gets home sick. Can you think about what makes the place you live so special? What do you like about it? Would you change anything? https://www.oxfordowl.co.uk/api/interactives/13004.html</p>

15th-20th June was refugee week. Can you research what a refugee is? Can you write how it may feel to be a refugee? How would you feel leaving your home? What would you want to take with you? You could act it out and record yourself. You could investigate this



powerpoint, please click to access it.

Can you write a persuasive poster encouraging people to live in your local area? What would you tell them about it? What can you do here? Remember, you want to talk about the best parts of the place where you live.

There are **12 questions** in this test. Give yourself **10 minutes** to answer them all.

1. Read the sentence below. Write the **contracted form** of the underlined words in the box.

I will not go to the shops.

1 mark

2. Tick the sentence below that should end with a **question mark**.

tick **one** box

I don't know who to ask

They aren't sure how it happened

Where's the train station

What I saw was simply amazing

1 mark

3. Underline the **object** in the sentence below.

Coralie found Nigel.

1 mark

4. Add a **semi-colon** to the sentence below so that it's punctuated correctly.

The library at the end of my street is closed on Wednesday afternoons the library in town is closed on Monday afternoons.

1 mark

5. Read the sentences below. Tick the **two** sentences where the word delay is used as a **noun**.

tick **two** boxes

The pilot had to delay the plane's take-off.

The company apologised for the delay.

There was a delay in getting the results.

Joe did not allow the bad weather to delay his trip.

1 mark

6. Tick the sentence below that uses the **present progressive** tense.

tick **one** box

I play football every Thursday.

I was watching television.

She wished she could go on holiday.

They are making lunch for us.

1 mark

7. Underline the **subordinate clause** in the sentence below.

I didn't want to take part in the school play because I'm too shy.

1 mark

8. Tick the pair of **verbs** that best completes the sentence below.

Sparrows once commonly found in gardens, but now they a rarer sight in this country.

tick **one** box

- were were
- were is
- were are
- was are

1 mark

9. Explain how the **commas** used below give the two sentences different meanings.

All the children who are blond enjoy swimming.

All the children, who are blond, enjoy swimming.

.....

.....

.....

1 mark

10. Read the sentence below. Circle the **present perfect** form of the underlined verb.

He writes in his diary every night.

- wrote will write had written has written

1 mark

11. Draw a line to match each word to the correct **synonym**.

Word	Synonym
disappointed	content
impolite	livid
happy	disrespectful
furious	disheartened

1 mark

12. Write a sentence below that has two **determiners**. Underline the determiners in your sentence.

.....

.....

1 mark

END OF TEST

/ 12

7. Add a **comma** to the sentence below so that it's punctuated correctly.

Before he could stop me I snatched a cake and ate it.

1 mark

8. Put a tick in the correct column to show whether each sentence is a **command** or a **statement**. One has already been done for you.

Sentence	Command	Statement
You could take the rubbish out.		✓
Water the plants.		
My brother washes the car.		
Lily, put those books away.		

1 mark

9. Explain how the **hyphen** used below gives the two sentences different meanings.

Sally had to hand in four weekly reports.

Sally had to hand in four-weekly reports.

.....

.....

.....

1 mark

10. Complete the sentence below using an **adverb**.

"..... we could paint your room blue," said Mum.

1 mark

11. Draw a line to match each **prefix** to a word to make a new word. The first one has been done for you.

auto	_____	biography
super		lead
anti		act
mis		clockwise
inter		visor

1 mark

12. Tick the **two** sentences below that use the **subjunctive** form.

tick **two** boxes

If I were you, I would enter the competition.

Shall I bring my tent?

If it's too heavy, I'll take it for you.

I wish I were able to go with you.

1 mark

END OF TEST

/ 12

Test 2 — Pages 6-9

1. 1 mark
won't
2. 1 mark
Where's the train station
3. 1 mark
Coralie found Nigel.
4. 1 mark
The library at the end of my street is closed on Wednesday afternoons; the library in town is closed on Monday afternoons.
5. 1 mark for both correct
The company apologised for the delay.
There was a delay in getting the results.
6. 1 mark
They are making lunch for us.
7. 1 mark
I didn't want to take part in the school play because I'm too shy.
8. 1 mark
were are

12. 1 mark for both correct

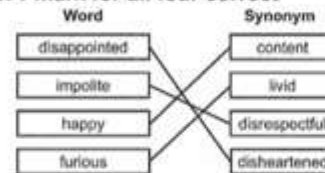
*If I were you, I would enter the competition.
I wish I were able to go with you.*

Answers

9. 1 mark
Answers may vary, for example:
The first sentence means that only the children who are blond enjoy swimming.
The second sentence means that all the children are blond and they all enjoy swimming.

10. 1 mark
has written

11. 1 mark for all four correct



12. 1 mark
Answers may vary, for example:
My cat was lying on the sofa.

Test 3 — Pages 10-13

1. 1 mark
There was a red box lying on the floor.



2. 1 mark
Francis enjoys going for walks in the countryside, even though he has a bad knee.

3. 1 mark
Answers may vary, for example:
We could go shopping, or we could go bowling.

4. 1 mark
I made a fruit salad using melons.



5. 1 mark
I played tennis and then I went out for a meal.

6. 1 mark
who

7. 1 mark
Before he could stop me, I snatched a cake and ate it.

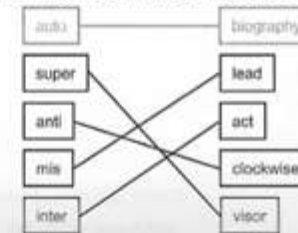
8. 1 mark for all three correct

Sentence	Command	Statement
You could take the rubbish out.		✓
Water the plants.	✓	
My brother washes the car.		✓
Lily, put those books away.	✓	

9. 1 mark
Answers may vary, for example:
The first sentence means that Sally had to hand in weekly reports and there were four of them. The second sentence means that Sally had to hand in a report every four weeks.

10. 1 mark
Answers may vary, for example:
Perhaps, Maybe

11. 1 mark for all four correct



TARGET To add and subtract fractions and mixed numbers with different denominators.

Examples $\frac{3}{5} + \frac{7}{10} = \frac{6+7}{10} = \frac{13}{10} = 1\frac{3}{10}$ $\frac{11}{12} - \frac{3}{4} = \frac{11-9}{12} = \frac{2}{12} = \frac{1}{6}$
 $2\frac{3}{7} + 1\frac{5}{7} = 3\frac{8}{7} = 4\frac{1}{7}$ $5\frac{3}{4} - 1\frac{1}{8} = 4\frac{6-1}{8} = 4\frac{5}{8}$

If the numerators cannot be subtracted change one whole one into a fraction.

$$4\frac{3}{10} - 2\frac{7}{2} = 2\frac{3-5}{10} = 1\frac{13-5}{10} = 1\frac{8}{10} = \frac{4}{5}$$

A

Copy and complete.

- 1 $\frac{4}{9} + \frac{1}{9} = \frac{\square}{9} + \frac{\square}{9} = \frac{\square}{9}$
- 2 $\frac{23}{100} + \frac{39}{100} = \frac{\square}{100} + \frac{\square}{100} = \frac{\square}{100}$
- 3 $\frac{3}{4} - \frac{1}{4} = \frac{\square}{4} - \frac{\square}{4} = \frac{\square}{4}$
- 4 $\frac{5}{8} - \frac{3}{8} = \frac{\square}{8} - \frac{\square}{8} = \frac{\square}{8}$
- 5 $\frac{3}{5} + \frac{4}{5} = \frac{\square}{5} = 1\frac{\square}{5}$
- 6 $\frac{7}{12} + \frac{7}{12} = \frac{\square}{12} = 1\frac{\square}{12}$
- 7 $1\frac{1}{6} - \frac{5}{6} = \frac{\square}{6} - \frac{5}{6} = \frac{\square}{6}$
- 8 $1\frac{3}{10} - \frac{7}{10} = \frac{\square}{10} - \frac{7}{10} = \frac{\square}{10}$

Work out

- | | |
|--------------------------------------|-----------------------------------|
| 9 $\frac{1}{5} + \frac{2}{5}$ | 17 $\frac{6}{7} + \frac{4}{7}$ |
| 10 $\frac{3}{8} + \frac{3}{8}$ | 18 $\frac{3}{4} + \frac{3}{4}$ |
| 11 $\frac{99}{100} - \frac{12}{100}$ | 19 $1\frac{1}{3} - \frac{2}{3}$ |
| 12 $\frac{7}{9} - \frac{5}{9}$ | 20 $1\frac{4}{11} - \frac{9}{11}$ |

B

Continue to complete. Write answers in lowest terms or as mixed numbers where necessary.

- 1 $\frac{1}{2} + \frac{3}{8} = \frac{\square}{8} + \frac{3}{8} = \frac{\square}{8}$
- 2 $\frac{11}{12} - \frac{5}{6} = \frac{11}{12} - \frac{\square}{12} = \frac{\square}{12}$
- 3 $\frac{5}{9} - \frac{1}{3} = \frac{5+\square}{9} = \frac{\square}{9}$
- 4 $\frac{4}{5} - \frac{7}{10} = \frac{\square-7}{10} = \frac{\square}{10}$
- 5 $3\frac{2}{7} + 1\frac{3}{7} = 4\frac{\square}{7} = \dots$
- 6 $1\frac{7}{11} + 2\frac{10}{11} = 3\frac{\square}{11} = \dots$
- 7 $4\frac{61}{100} - 1\frac{37}{100} = 3\frac{\square}{100} = \dots$
- 8 $7\frac{4}{9} - 3\frac{5}{9} = 4\frac{\square}{9} = \dots$

Work out

- | | |
|---------------------------------|--|
| 9 $\frac{4}{10} + \frac{1}{2}$ | 11 $1\frac{43}{100} - 5\frac{79}{100}$ |
| 10 $\frac{3}{4} + \frac{5}{12}$ | 12 $5\frac{2}{9} + 1\frac{2}{9}$ |
| 11 $\frac{7}{8} - \frac{1}{4}$ | 13 $4\frac{4}{3} - 2\frac{3}{3}$ |
| 12 $1\frac{1}{3} - \frac{5}{6}$ | 14 $6\frac{7}{12} - 3\frac{11}{12}$ |

C

Work out

- 1 $\frac{1}{4} + \frac{1}{3}$
- 2 $\frac{2}{7} + \frac{1}{2}$
- 3 $\frac{2}{3} - \frac{3}{5}$
- 4 $\frac{9}{10} + \frac{2}{3}$
- 5 $\frac{7}{12} - \frac{1}{3}$
- 6 $\frac{9}{10} - \frac{3}{4}$
- 7 $1\frac{1}{6} - \frac{5}{8}$
- 8 $1\frac{1}{2} - \frac{4}{3}$
- 9 $2\frac{1}{3} + 1\frac{5}{12}$
- 10 $3\frac{57}{100} + 3\frac{3}{4}$
- 11 $5\frac{2}{5} + 2\frac{1}{10}$
- 12 $1\frac{3}{4} + 1\frac{7}{8}$
- 13 $3\frac{1}{2} - 1\frac{21}{100}$
- 14 $4\frac{3}{8} - 3\frac{5}{16}$
- 15 $2\frac{1}{2} - 1\frac{2}{3}$
- 16 $5\frac{125}{1000} - 2\frac{4}{5}$

TARGET To add and subtract mixed numbers.

Examples $3\frac{2}{3} + 1\frac{4}{5} = 4\frac{10+12}{15} = 4\frac{22}{15} = 5\frac{7}{15}$

$6\frac{3}{4} - 2\frac{7}{10} = 4\frac{15-14}{20} = 4\frac{1}{20}$

If the numerators cannot be subtracted convert one whole one into a fraction.

$5\frac{3}{8} - 3\frac{5}{6} = 2\frac{9-20}{24} = 1\frac{33-20}{24} = 1\frac{13}{24}$

A

Copy and complete.

1 $\frac{1}{2} + \frac{1}{6} = \frac{\square}{6} + \frac{1}{6} = \frac{\square}{6}$

2 $\frac{2}{5} + \frac{3}{10} = \frac{\square}{10} + \frac{3}{10} = \frac{\square}{10}$

3 $\frac{3}{4} - \frac{5}{12} = \frac{\square}{12} - \frac{5}{12} = \frac{\square}{12}$

4 $\frac{1}{3} - \frac{1}{6} = \frac{\square}{6} - \frac{1}{6} = \frac{\square}{6}$

Work out

5 $\frac{1}{8} + \frac{5}{12}$ 6 $\frac{9}{10} - \frac{2}{3}$

7 $\frac{2}{10} - \frac{1}{2}$ 8 $\frac{1}{2} - \frac{1}{12}$

9 $\frac{1}{12} - \frac{2}{3}$ 10 $\frac{7}{12} - \frac{1}{4}$

11 $\frac{23}{100} + \frac{4}{10}$ 12 $\frac{5}{6} - \frac{1}{3}$

13 $\frac{3}{12} + \frac{2}{6}$ 14 $\frac{11}{12} - \frac{5}{6}$

15 $\frac{1}{2} + \frac{1}{8}$ 16 $\frac{3}{4} - \frac{1}{8}$

17 $\frac{1}{3} - \frac{4}{9}$ 18 $\frac{8}{10} - \frac{1}{2}$

19 $\frac{5}{8} - \frac{1}{4}$ 20 $\frac{7}{9} - \frac{2}{3}$

B

Copy and complete.

1 $4\frac{1}{3} + 2\frac{5}{12} = 6\frac{\square+5}{12} = 6\frac{\square}{12}$

2 $1\frac{1}{4} + 2\frac{3}{5} = 3\frac{\square+\square}{20} = 3\frac{\square}{20}$

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

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

Work out

5 $5\frac{7}{10} + 1\frac{19}{100}$ 11 $3\frac{3}{4} - 2\frac{1}{12}$

6 $2\frac{1}{12} + 1\frac{5}{6}$ 12 $2\frac{2}{3} - 1\frac{1}{6}$

7 $1\frac{1}{2} + 4\frac{3}{10}$ 13 $4\frac{1}{2} - 2\frac{5}{12}$

8 $3\frac{2}{3} + 2\frac{1}{9}$ 14 $7\frac{57}{100} - 4\frac{2}{10}$

9 $4\frac{2}{3} + 1\frac{5}{6}$ 15 $3\frac{2}{3} - 1\frac{1}{2}$

10 $3\frac{3}{4} + 3\frac{2}{3}$ 16 $5\frac{3}{9} - 2\frac{1}{4}$

17 $2\frac{5}{8} + 4\frac{9}{10}$ 18 $6\frac{2}{3} - 1\frac{9}{10}$

19 $5\frac{4}{7} + 2\frac{1}{2}$ 20 $8\frac{7}{8} - 3\frac{3}{5}$

C

Work out

1 $3\frac{5}{7} + 3\frac{1}{2}$

2 $5\frac{3}{10} + 4\frac{5}{6}$

3 $2\frac{4}{5} + 3\frac{5}{8}$

4 $6\frac{5}{6} + 2\frac{3}{4}$

5 $4\frac{7}{5} + 7\frac{6}{11}$

6 $0\frac{3}{4} + 5\frac{2}{9}$

7 $1\frac{7}{8} + 6\frac{1}{6}$

8 $7\frac{11}{12} - 2\frac{2}{5}$

9 $4\frac{1}{6} + 1\frac{3}{4}$

10 $5\frac{3}{10} - 3\frac{7}{12}$

11 $2\frac{3}{5} - 1\frac{2}{3}$

12 $8\frac{2}{7} - 4\frac{4}{5}$

13 $9\frac{1}{2} - 2\frac{8}{9}$

14 $6\frac{1}{4} - 3\frac{9}{10}$

15 $3\frac{2}{3} - 1\frac{6}{7}$

16 $7\frac{5}{12} - 2\frac{2}{8}$

TARGET To multiply pairs of fractions, writing the answer in its simplest form.

Examples

METHOD 1

Multiply and then cancel.

$$\textcircled{1} \frac{3}{4} \times \frac{8}{9} = \frac{24}{36} = \frac{2}{3}$$

$$\textcircled{2} \frac{5}{12} \times \frac{3}{10} = \frac{15}{120} = \frac{1}{8}$$

METHOD 2

Cancel and then multiply.

$$\textcircled{1} \frac{3}{4} \times \frac{8}{9} = \frac{2}{3} \text{ (cancel 3 and 9, 4 and 8)}$$

$$\textcircled{2} \frac{5}{12} \times \frac{3}{10} = \frac{1}{8} \text{ (cancel 5 and 10, 3 and 12)}$$

A

Copy and complete.

$$\textcircled{1} \frac{1}{2} \times \frac{1}{5} = \frac{1}{\square}$$

$$\textcircled{2} \frac{1}{4} \times \frac{1}{6} = \frac{1}{\square}$$

$$\textcircled{3} \frac{1}{2} \times \frac{1}{2} = \frac{1}{\square}$$

$$\textcircled{4} \frac{1}{3} \times \frac{1}{4} = \frac{1}{\square}$$

$$\textcircled{5} \frac{4}{5} \times \frac{1}{7} = \frac{\square}{35}$$

$$\textcircled{6} \frac{1}{2} \times \frac{3}{4} = \frac{3}{\square}$$

$$\textcircled{7} \frac{1}{5} \times \frac{2}{3} = \frac{\square}{\square}$$

$$\textcircled{8} \frac{3}{4} \times \frac{1}{10} = \frac{\square}{\square}$$

Work out

$$\textcircled{9} \frac{1}{2} \times \frac{1}{3}$$

$$\textcircled{11} \frac{1}{2} \times \frac{5}{6}$$

$$\textcircled{10} \frac{1}{5} \times \frac{1}{10}$$

$$\textcircled{12} \frac{1}{3} \times \frac{2}{3}$$

$$\textcircled{13} \frac{1}{2} \times \frac{1}{4}$$

$$\textcircled{15} \frac{7}{10} \times \frac{1}{2}$$

$$\textcircled{14} \frac{1}{3} \times \frac{1}{5}$$

$$\textcircled{16} \frac{3}{8} \times \frac{1}{4}$$

B

Copy and complete.

$$\textcircled{1} \frac{2}{3} \times \frac{2}{3} = \frac{\square}{9}$$

$$\textcircled{2} \frac{3}{4} \times \frac{4}{5} = \frac{12}{\square} = \frac{3}{\square}$$

$$\textcircled{3} \frac{1}{3} \times \frac{11}{12} = \frac{\square}{\square}$$

$$\textcircled{4} \frac{5}{6} \times \frac{4}{5} = \frac{\square}{30} = \frac{\square}{3}$$

$$\textcircled{5} \frac{3}{4} \times \frac{1}{8} = \frac{\square}{\square}$$

$$\textcircled{6} \frac{3}{6} \times \frac{4}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\textcircled{7} \frac{9}{10} \times \frac{5}{12} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\textcircled{8} \frac{4}{5} \times \frac{3}{8} = \frac{\square}{\square} = \frac{\square}{\square}$$

Multiply and then cancel as in METHOD 1.

$$\textcircled{9} \frac{1}{2} \times \frac{4}{7}$$

$$\textcircled{11} \frac{3}{4} \times \frac{4}{9}$$

$$\textcircled{10} \frac{2}{5} \times \frac{5}{6}$$

$$\textcircled{12} \frac{3}{10} \times \frac{5}{10}$$

$$\textcircled{11} \frac{2}{3} \times \frac{3}{4}$$

$$\textcircled{15} \frac{3}{5} \times \frac{5}{12}$$

$$\textcircled{12} \frac{4}{5} \times \frac{7}{12}$$

$$\textcircled{16} \frac{2}{3} \times \frac{9}{10}$$

$\textcircled{17}$ Do $\textcircled{9}$ to $\textcircled{16}$ again using METHOD 2.

C

Cancel and then multiply as in METHOD 2.

$$\textcircled{1} \frac{7}{10} \times \frac{4}{5}$$

$$\textcircled{5} \frac{3}{4} \times \frac{5}{12}$$

$$\textcircled{2} \frac{2}{5} \times \frac{3}{4}$$

$$\textcircled{6} \frac{3}{10} \times \frac{8}{9}$$

$$\textcircled{3} \frac{99}{100} \times \frac{2}{9}$$

$$\textcircled{7} \frac{7}{12} \times \frac{4}{7}$$

$$\textcircled{4} \frac{7}{8} \times \frac{2}{3}$$

$$\textcircled{8} \frac{5}{6} \times \frac{19}{100}$$

Change the first number into an improper fraction and work out.

$$\textcircled{9} 1\frac{1}{4} \times \frac{6}{11}$$

$$\textcircled{17} 2\frac{1}{12} \times \frac{5}{3}$$

$$\textcircled{10} 3\frac{1}{2} \times \frac{1}{8}$$

$$\textcircled{18} 5\frac{1}{8} \times \frac{5}{9}$$

$$\textcircled{11} 3\frac{1}{3} \times \frac{2}{3}$$

$$\textcircled{19} 6\frac{2}{3} \times \frac{8}{10}$$

$$\textcircled{12} 4\frac{1}{2} \times \frac{11}{12}$$

$$\textcircled{20} 2\frac{1}{6} \times \frac{1}{11}$$

$$\textcircled{13} 5\frac{1}{2} \times \frac{1}{8}$$

$$\textcircled{21} 4\frac{4}{5} \times \frac{1}{8}$$

$$\textcircled{14} 2\frac{7}{11} \times \frac{2}{3}$$

$$\textcircled{22} 1\frac{5}{6} \times \frac{7}{8}$$

$$\textcircled{15} 3\frac{7}{11} \times \frac{8}{8}$$

$$\textcircled{23} 6\frac{3}{13} \times \frac{8}{11}$$

$$\textcircled{16} 3\frac{1}{6} \times \frac{1}{4}$$

$$\textcircled{24} 8\frac{1}{6} \times \frac{1}{7}$$

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|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| 1 $\frac{3}{5}$ | 2 $\frac{3}{10}$ | 3 $\frac{1}{2}$ | 4 $\frac{4}{8}$ | 5 $\frac{1}{3}$ | 6 $\frac{5}{8}$ |
| | | | | | |
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B

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|---|--------------------|
| 1 $\frac{4}{10} = \frac{5}{20} = \frac{6}{24} = \frac{7}{28} = \frac{8}{32}$ | 6 $\frac{8}{12}$ |
| 2 $\frac{8}{12} = \frac{10}{15} = \frac{12}{18} = \frac{14}{21} = \frac{16}{24}$ | 7 $\frac{15}{20}$ |
| 3 $\frac{4}{24} = \frac{5}{30} = \frac{6}{36} = \frac{7}{42} = \frac{8}{48}$ | 8 $\frac{6}{14}$ |
| 4 $\frac{12}{40} = \frac{15}{50} = \frac{18}{60} = \frac{21}{70} = \frac{24}{80}$ | 9 $\frac{15}{18}$ |
| 5 $\frac{20}{48} = \frac{25}{60} = \frac{30}{72} = \frac{35}{84} = \frac{40}{96}$ | 10 $\frac{42}{48}$ |

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|---------------------|---------------------|--------------------|------------------|--------------------|
| 11 $\frac{40}{100}$ | 14 $\frac{35}{60}$ | 17 $\frac{3}{5}$ | 20 $\frac{2}{3}$ | 23 $\frac{3}{4}$ |
| 12 $\frac{16}{36}$ | 15 $\frac{25}{100}$ | 18 $\frac{11}{12}$ | 21 $\frac{5}{6}$ | 24 $\frac{8}{9}$ |
| 13 $\frac{94}{200}$ | 16 $\frac{6}{7}$ | 19 $\frac{7}{20}$ | 22 $\frac{1}{4}$ | 25 $\frac{17}{25}$ |

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- 1 BERLIN 2 WARSAW 3 VIENNA 4 ATHENS

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|-----------------------|-----------------|-----|------|
| 1 a) $\frac{40}{100}$ | 2 $\frac{3}{8}$ | 6 > | 10 < |
| b) $\frac{25}{50}$ | 3 $\frac{5}{8}$ | 7 < | 11 > |
| c) $\frac{4}{6}$ | 4 $\frac{1}{4}$ | 8 < | 12 < |
| d) $\frac{13}{12}$ | 5 $\frac{1}{3}$ | 9 > | 13 > |

B

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|--------------------|-------------------|--------------------|
| 1 < | 5 < | 9 $\frac{7}{12}$ |
| 2 > | 6 > | 10 $\frac{1}{2}$ |
| 3 > | 7 > | 11 $\frac{1}{4}$ |
| 4 < | 8 < | 12 $\frac{1}{2}$ |
| 13 $\frac{1}{8}$ | 17 $\frac{1}{10}$ | 21 $\frac{11}{12}$ |
| 14 $\frac{7}{10}$ | 18 $\frac{5}{16}$ | 22 $\frac{17}{24}$ |
| 15 $\frac{17}{19}$ | 19 $\frac{5}{12}$ | 23 $\frac{19}{16}$ |
| 16 $\frac{13}{10}$ | 20 $\frac{1}{4}$ | 24 $\frac{11}{20}$ |

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|------------------|-------------------|--------------------|--------------------|------|
| 1 $\frac{1}{5}$ | 5 $\frac{10}{7}$ | 9 $\frac{9}{40}$ | 13 $\frac{5}{4}$ | 17 < |
| 2 $\frac{7}{12}$ | 6 $\frac{5}{4}$ | 10 $\frac{4}{6}$ | 14 $\frac{10}{12}$ | 18 > |
| 3 $\frac{2}{9}$ | 7 $\frac{17}{10}$ | 11 $\frac{11}{8}$ | 15 $\frac{15}{16}$ | 19 = |
| 4 $\frac{2}{3}$ | 8 $\frac{14}{9}$ | 12 $\frac{27}{20}$ | 16 $\frac{21}{48}$ | 20 < |

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|--------------------|-------------------|---------------------|-------------------|
| 1 $\frac{5}{6}$ | 5 $1\frac{2}{3}$ | 9 $\frac{3}{5}$ | 13 $1\frac{1}{2}$ |
| 2 $\frac{60}{100}$ | 6 $1\frac{1}{12}$ | 10 $\frac{6}{8}$ | 14 $1\frac{1}{4}$ |
| 3 $\frac{2}{4}$ | 7 $\frac{2}{6}$ | 11 $\frac{87}{100}$ | 15 $\frac{2}{5}$ |
| 4 $\frac{2}{8}$ | 8 $\frac{6}{10}$ | 12 $\frac{2}{9}$ | 16 $\frac{6}{11}$ |

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|------------------|-------------------|-------------------|---------------------|
| 1 $\frac{7}{8}$ | 5 $4\frac{5}{9}$ | 9 $\frac{9}{10}$ | 13 $7\frac{11}{30}$ |
| 2 $\frac{1}{12}$ | 6 $4\frac{6}{11}$ | 10 $1\frac{1}{6}$ | 14 5 |
| 3 $\frac{8}{9}$ | 7 $3\frac{6}{25}$ | 11 $\frac{8}{6}$ | 15 $2\frac{1}{5}$ |
| 4 $\frac{1}{10}$ | 8 $3\frac{8}{9}$ | 12 $\frac{1}{2}$ | 16 $2\frac{2}{3}$ |

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|--------------------|-------------------|--------------------|----------------------|
| 1 $\frac{7}{12}$ | 5 $\frac{23}{60}$ | 9 $3\frac{3}{4}$ | 13 $2\frac{20}{100}$ |
| 2 $\frac{11}{14}$ | 6 $\frac{1}{20}$ | 10 $7\frac{8}{25}$ | 14 $1\frac{1}{16}$ |
| 3 $1\frac{4}{15}$ | 7 $\frac{13}{24}$ | 11 $7\frac{7}{10}$ | 15 $\frac{5}{6}$ |
| 4 $1\frac{17}{30}$ | 8 $\frac{7}{10}$ | 12 $3\frac{5}{8}$ | 16 $2\frac{13}{40}$ |

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|------------------|--------------------|------------------|-------------------|-------------------|
| 1 $\frac{4}{6}$ | 5 $\frac{7}{12}$ | 9 $\frac{7}{12}$ | 13 $\frac{5}{10}$ | 17 $\frac{1}{12}$ |
| 2 $\frac{7}{10}$ | 6 $\frac{7}{10}$ | 10 $\frac{5}{8}$ | 14 $\frac{5}{12}$ | 18 $\frac{5}{8}$ |
| 3 $\frac{4}{12}$ | 7 $\frac{9}{12}$ | 11 $\frac{7}{9}$ | 15 $\frac{4}{12}$ | 19 $\frac{3}{10}$ |
| 4 $\frac{1}{6}$ | 8 $\frac{65}{100}$ | 12 $\frac{7}{8}$ | 16 $\frac{3}{6}$ | 20 $\frac{1}{9}$ |

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|--------------------|---------------------|---------------------|----------------------|---------------------|
| 1 $6\frac{9}{12}$ | 5 $6\frac{89}{100}$ | 9 $6\frac{7}{30}$ | 13 $1\frac{8}{12}$ | 17 $1\frac{9}{10}$ |
| 2 $3\frac{17}{20}$ | 6 $3\frac{11}{12}$ | 10 $5\frac{5}{12}$ | 14 $1\frac{1}{6}$ | 18 $3\frac{11}{36}$ |
| 3 $2\frac{1}{8}$ | 7 $5\frac{8}{10}$ | 11 $7\frac{21}{40}$ | 15 $2\frac{1}{12}$ | 19 $4\frac{23}{30}$ |
| 4 $1\frac{4}{15}$ | 8 $5\frac{7}{9}$ | 12 $8\frac{1}{14}$ | 16 $3\frac{37}{100}$ | 20 $5\frac{11}{40}$ |

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|--------------------|---------------------|---------------------|---------------------|
| 1 $7\frac{1}{14}$ | 5 $12\frac{7}{33}$ | 9 $5\frac{11}{12}$ | 13 $6\frac{11}{18}$ |
| 2 $10\frac{4}{20}$ | 6 $15\frac{1}{28}$ | 10 $1\frac{33}{60}$ | 14 $2\frac{2}{20}$ |
| 3 $6\frac{17}{40}$ | 7 $8\frac{1}{24}$ | 11 $\frac{14}{15}$ | 15 $1\frac{17}{21}$ |
| 4 $9\frac{11}{36}$ | 8 $10\frac{19}{60}$ | 12 $3\frac{17}{35}$ | 16 $4\frac{17}{24}$ |

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|------------------|------------------|-------------------|-------------------|
| 1 $\frac{1}{10}$ | 5 $\frac{4}{35}$ | 9 $\frac{1}{6}$ | 13 $\frac{5}{12}$ |
| 2 $\frac{1}{24}$ | 6 $\frac{3}{8}$ | 10 $\frac{1}{30}$ | 14 $\frac{2}{9}$ |
| 3 $\frac{1}{4}$ | 7 $\frac{2}{15}$ | 11 $\frac{1}{8}$ | 15 $\frac{7}{20}$ |
| 4 $\frac{1}{12}$ | 8 $\frac{3}{40}$ | 12 $\frac{1}{15}$ | 16 $\frac{3}{12}$ |

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|-------------------|------------------|-------------------|-------------------|
| 1 $\frac{4}{9}$ | 5 $\frac{9}{32}$ | 9 $\frac{2}{7}$ | 13 $\frac{1}{3}$ |
| 2 $\frac{3}{5}$ | 6 $\frac{1}{3}$ | 10 $\frac{1}{3}$ | 14 $\frac{3}{20}$ |
| 3 $\frac{11}{36}$ | 7 $\frac{3}{8}$ | 11 $\frac{1}{2}$ | 15 $\frac{1}{4}$ |
| 4 $\frac{2}{3}$ | 8 $\frac{3}{10}$ | 12 $\frac{7}{15}$ | 16 $\frac{3}{5}$ |

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|-------------------|-------------------|--------------------|-------------------|-------------------|
| 1 $\frac{14}{25}$ | 6 $\frac{4}{15}$ | 11 $1\frac{1}{3}$ | 16 $1\frac{1}{2}$ | 21 $2\frac{2}{3}$ |
| 2 $\frac{1}{10}$ | 7 $\frac{1}{3}$ | 12 $4\frac{1}{8}$ | 17 $1\frac{2}{3}$ | 22 $3\frac{1}{4}$ |
| 3 $\frac{11}{50}$ | 8 $\frac{13}{40}$ | 13 $1\frac{5}{21}$ | 18 $4\frac{1}{2}$ | 23 $4\frac{2}{3}$ |
| 4 $\frac{7}{12}$ | 9 $\frac{1}{4}$ | 14 $1\frac{1}{3}$ | 19 6 | 24 $3\frac{1}{2}$ |
| 5 $\frac{5}{16}$ | 10 $\frac{3}{5}$ | 15 $2\frac{3}{11}$ | 20 $1\frac{1}{6}$ | |

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|------------------|------------------|-------------------|-------------------|
| 1 $\frac{1}{6}$ | 5 $\frac{3}{16}$ | 9 $\frac{1}{16}$ | 13 $\frac{5}{16}$ |
| 2 $\frac{1}{20}$ | 6 $\frac{2}{15}$ | 10 $\frac{1}{10}$ | 14 $\frac{2}{15}$ |
| 3 $\frac{1}{12}$ | 7 $\frac{3}{14}$ | 11 $\frac{1}{12}$ | 15 $\frac{3}{20}$ |
| 4 $\frac{1}{18}$ | 8 $\frac{5}{36}$ | 12 $\frac{1}{40}$ | 16 $\frac{4}{33}$ |

