Математическая грамотность в основной школе на примере УМК «Английский язык 5-9» (Кузовлев В.П. и др. ) издательство «Просвещение»

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| *умение****:* применить математические понятия, фактов, действий и аргументации.** |
| **Задания**  | **Умения** | **Примеры заданий в УМК** |
| Построить обобщение на основе результатов применения математических процедур в процессе решения задачи | Применить несложные формулы в простейших ситуациях повседневной жизни | **Student’s Book 7 Unit 2 Lesson 3 ex.1**. Here are some facts about George, Jonathan, Jodie and Emilia. **1**) Look at the table and read the sentences below. Are the sentences correct? **3)** Who gets up earlier (later), earliest (latest)? Who works harder, hardest? CompareGeorge and Jodie; Emilia and Jonathan; Emilia, Jonathan and Jodie.**Reader 7 Unit 6 ex. 2.** One of the most exciting attractions of Blackpool is the Blackpool Tower.4) How tall in meters is the Blackpool Tower?**Student’s Book 8 Unit 5 Lesson 4 ex.1**. 7) What was the boy’s temperature in Celsius? Use the scale below.  |
| Использовать различные представления информации в процессе решения задачи. Использовать цифровую, графическую информацию и данные статистики. | Извлечь, интерпретировать и преобразовать информацию, представленную в таблицах и на диаграммах, которая отражает свойства и характеристики реальных процессов и явлений | **Student’s Book 5 Unit 1 Lesson 3 ex.4.** The chart shows how the children from a Lipetsk school spent their summer holidays. How many children did the following activities?**Activity Book 5 Unit 5 Lesson 1 ex.2**. In your culture. What holidays do people in Russia like to celebrate best of all? Look at the chart (график) and fill in the gaps with the names of the holidays.**Student’s Book 6 Unit 5 Lesson 1 ex.4**. **3)** Make a report. Read Learning to learn note 3 first.*Five out of ten pupils often have colds.***Student’s Book 7 Unit 8 Lesson 2 ex.3.**Here are the results of the hobby survey among British children. 2) What is your opinion about the results of the survey?**Activity Book 8 Unit 4 Consolidation lesson ex.1 1**) One of the Internet sites asked children to vote for their favourite sport. 680 children took part. 1) What are the results of the survey**Student’s book 9 Unit 3 Lesson 1 ex. 3.** IN YOUR CULTURE Below are some facts and figures about the Russian media. 1) Make and write down the questions your foreign friends could ask you about the media in Russia. 2) Answer your foreign friends’ questions in the form of a report. The Fact File can help you.**Student’s book 9 Unit 3 Lesson 2. ex. 3.** In what way is Russia’s TV audience shared? 1) Match the most popular TV channels with the percentages of their viewers and then listen to the teacher’s story and check your work. 2) Why are the eight above channels most popular? What do they offer to their viewers? Give examples from your own TV viewing experience.**Student’s Book 8 Unit 5 Lesson 1 ex.4**. **1)** Here are some statistics taken from newspaper surveys about British, American and Russian people. How can you interpret the following facts?**Student’s Book 9 Unit 5 Lesson 1 ex.4**. Some jobs are more popular than others. 1) What jobs are popular with British and Russian teenagers? Compare the results of the survey. 2) Why are some jobs more popular than others? What do you think?**Activity Book 9 Unit 5 Lesson 9 ex.5**. *What is necessary for people in Russia to get job satisfaction? The table below shows the results of the survey.Comment on these results. Write a report.* |
| Построить графики, диаграммы. Получить математическую информацию из них | Построить графики. Использовать графики реальных процессов для решения задач | **Activity Book 8 Unit 4 Consolidation lesson ex.1. 2)** Make a similar survey in your class/school: put the question to as many people as possible; make a diagram; write a report.**Student’s book 9 Unit 1 Lesson 1 ex. 2. 3)** Group work. What are your classmates’ views on reading? Make a survey. Read Learning to Learn Note No. 2 (p. 258**).** |
| Оперировать алгебраическими выражениями. Словесно интерпретировать алгебраические выражения. Использовать для решения задач арифметические операции и их условные обозначения.  | Выполнить расчеты по формулам | **Student’s Book 8 Unit 5 Lesson 4 ex.1**. 7) What was the boy’s temperature in Celsius? Use the scale below. (Fahrenheit1 = (9/5 C) + 32) |
| Выполнить несложные преобразования целых, дробно-рациональных выражений. | **Reader 5 Unit 6 ex. 1.3)** Find the children’s mistakes and correct them.**Activity Book 5 Unit 8 Lesson 2 ex.2.** For many years ravens have guarded the Tower of London. How long have they lived in the Tower?**Reader 8 Unit 5 ex.1**. The research company questioned parents in Britain about a balanced diet in their families. 1) What do the results of the survey show? 3) Fill in the gaps with the following figures: 19%, 37%, 46%, 52%.**Student’s book 9 Unit 1 Lesson 1 ex. 2. 1)** Here are the results of the Nestle Family Monitor*\** survey “Young People’s Attitudes Towards Reading”. **1**) Are young people in the UK positive about reading? Use the Fact File and the site www.literacytrust.org.uk to comment on the results of the survey. |
| Сформированность представлений о пространстве и форме, о неопределённости данных | оперировать понятиями количества и величины, которые относятся к таким явлениям, как время, деньги, вес, температура, расстояние, площадь, объем, производные величины и их числовое описание | **Reader 6 Unit 5 ex.3**. **2)b)** John Partridge is very busy. He does a lot of things during the day. b) Find in the story and write the time differently.**Activity Book 6 Unit 1 Lesson 2 ex.2.**Are the things different or alike? Compare the things in each pair.**Activity Book 6 Unit 1 Consolidation ex.5.**These are some interesting facts from the Guinness Book of World Records. Compare the people and things.**Student’s Book 8 Unit 1 Lesson 1 ex.4.** What would you tell your foreign friend about Russia? Use the Fact File and the sites. |
| Применить проценты, соотношения и пропорции для решения проблем | **Student’s Book 8 Unit 5 Lesson 1 ex.3**. 1) Learning to learn *note Describing percentages/Comparing and contrasting***Student’s book 9 Unit 3 Lesson 1 ex. 2.** *The US media is considered to be the biggest mass media in the world.* PAIR WORK **What speaks for the fact that the US media is the biggest mass media in the world?**  |
| Собрать, представить и интерпретировать данные | **Student’s book 6 Unit 4 Lesson 6 ex. 3** What do your friends think about shopping? 1) Choose a question and ask your friend. 2) Make a report.**Student’s book 6 Unit 7 Lesson 2 ex. 4. 2)** Walk round the class to find out your classmates’ parents’ jobs. Make a report about their jobs.**Student’s Book 9 Unit 5 Lesson 9 Project** *Jobs around us*1. Make up the questions for your survey “Jobs around us”.2. Conduct a survey in your class: 3. Make a collage showing the results of the survey.4. Write your comments on the results of the survey.**Student’s Book 7 Unit 8 Lesson 2 ex.4.**Group work. Are you excited about the hobbies that British children are keen on? Find it out. Do a survey and make up a report. |
|  *Контексты задач* |
| ***Индивидуальный контекст*** | Решить задачи, которые сфокусированы на деятельности отдельного человека, его семьи или группы сверстников: приготовление пищи, покупки, игры, здоровье, личный транспорт, спорт, путешествия, расписание дня, личные финансы и др. | **Student’s Book 5 Unit 2 Lesson 4 ex.4**. Pair work. You want to go to the library with your friend but you have to do some things during the day. Find the most suitable time for both of you. The library is open from 10 am till 6 pm.**Student’s Book 8 Unit 1 Lessons 8-9 ex.2.1)** Which of these facts might be interesting to your foreign friend? |
| ***социальный контекст*** | решить задачи, которые сфокусированы на сообществе: системы голосования, общественный транспорт, государственная политика, демография, реклама, статистика, экономика и др. | **Student’s Book 8 Unit 4 Lesson 7 ex.**3 Pair work. Sport problems at school are also discussed in Russia. Discuss the following ideas: · doing fewer PE lessons at school; taking out PE lessons from university programmes; building swimming pools in every school **Student’s book 9 Unit 3 Lesson 4 ex. 3.** Young people all over the world have grown up with advertisements. Advertisements can influence young consumers’ choice greatly. **1)** Things below are often advertised in the media. Which of these things are most popular with young British consumers? Which things are more popular with girls and which are more popular with boys? Who spends more – girls or boys? What do you think? |